



US008735372B2

(12) **United States Patent**
Du et al.

(10) **Patent No.:** **US 8,735,372 B2**
(45) **Date of Patent:** **May 27, 2014**

- (54) **NUCLEOSIDE PHOSPHORAMIDATE PRODRUGS**
- (71) Applicant: **Gilead Pharmasset LLC**, Foster City, CA (US)
- (72) Inventors: **Jinfa Du**, Redwood City, CA (US); **Dhanapalan Nagarathnam**, Bethany, CT (US); **Michael Joseph Sofia**, Doylestown, PA (US); **Peiyuan Wang**, Totowa, NJ (US)
- (73) Assignee: **Gilead Pharmasset LLC**, Foster City, CA (US)
- (*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.
- (21) Appl. No.: **14/057,675**
- (22) Filed: **Oct. 18, 2013**

5,376,380	A	12/1994	Kikuchi et al.
5,405,598	A	4/1995	Schinazi et al.
5,411,947	A	5/1995	Hostetler et al.
5,420,266	A	5/1995	Britton et al.
5,426,183	A	6/1995	Kjell
5,453,499	A	9/1995	Chou et al.
5,462,724	A	10/1995	Schinazi et al.
5,463,092	A	10/1995	Hostetler et al.
5,496,546	A	3/1996	Wang et al.
5,538,865	A	7/1996	Reyes et al.
5,543,389	A	8/1996	Yatvin et al.
5,543,390	A	8/1996	Yatvin et al.
5,543,391	A	8/1996	Yatvin et al.
5,554,728	A	9/1996	Basava et al.
5,610,054	A	3/1997	Draper
5,633,358	A	5/1997	Gruetzke et al.
5,633,388	A	5/1997	Diana et al.
5,676,942	A	10/1997	Testa et al.
5,703,058	A	12/1997	Schinazi et al.
5,711,944	A	1/1998	Gilbert et al.
5,725,859	A	3/1998	Omer
5,738,845	A	4/1998	Imakawa
5,738,846	A	4/1998	Greenwald et al.

(Continued)

- (65) **Prior Publication Data**
US 2014/0045783 A1 Feb. 13, 2014

Related U.S. Application Data

- (63) Continuation of application No. 13/609,614, filed on Sep. 11, 2012, now Pat. No. 8,580,765, which is a continuation of application No. 13/099,671, filed on May 3, 2011, now Pat. No. 8,334,270, which is a continuation of application No. 12/053,015, filed on Mar. 21, 2008, now Pat. No. 7,964,580.
- (60) Provisional application No. 60/982,309, filed on Oct. 24, 2007, provisional application No. 60/909,315, filed on Mar. 30, 2007.

- (51) **Int. Cl.**
A01N 43/04 (2006.01)
A61K 31/70 (2006.01)
- (52) **U.S. Cl.**
USPC **514/51**; 514/43; 514/49; 514/50
- (58) **Field of Classification Search**
None
See application file for complete search history.

- (56) **References Cited**

U.S. PATENT DOCUMENTS

3,798,209	A	3/1974	Witkowski et al.
3,852,267	A	12/1974	Meyer, Jr. et al.
RE29,835	E	11/1978	Witkowski et al.
4,814,477	A	3/1989	Wijnberg et al.
4,957,924	A	9/1990	Beauchamp
5,026,687	A	6/1991	Yarchoan et al.
5,118,820	A	6/1992	Hertel
5,149,794	A	9/1992	Yatvin et al.
5,157,027	A	10/1992	Biller et al.
5,192,549	A	3/1993	Barenoloz et al.
5,194,654	A	3/1993	Hostetler et al.
5,223,263	A	6/1993	Hostetler et al.
5,256,641	A	10/1993	Yatvin et al.
5,256,798	A	10/1993	Chou et al.
5,372,808	A	12/1994	Blatt et al.

FOREIGN PATENT DOCUMENTS

CN	101108870	A	1/2008
DE	199 14 474	A1	10/1999

(Continued)

OTHER PUBLICATIONS

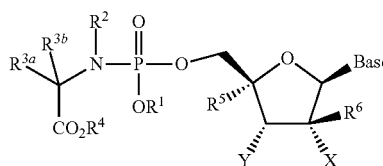
Gudmundsson, Kristjan S., et al., "Phosphoramidate Protides of Carboicyclic 2',3'-Dideoxy-2',3'-Didehydro-7-Deazaadenosine with Potent Activity Against HIV and HBV," Nucleosides, Nucleotides & Nucleic Acids (2004) 23(12): 1929-1937.

(Continued)

Primary Examiner — Patrick Lewis
(74) *Attorney, Agent, or Firm* — Fitzpatrick, Cella, Harper & Scinto

- (57) **ABSTRACT**

Disclosed herein are phosphoramidate prodrugs of nucleoside derivatives for the treatment of viral infections in mammals, which is a compound, its stereoisomer, salt (acid or basic addition salt), hydrate, solvate, or crystalline form thereof, represented by the following structure:



Also disclosed are methods of treatment, uses, and processes for preparing each of which utilize the compound represented by formula I.

2 Claims, No Drawings

(56)

References Cited

U.S. PATENT DOCUMENTS

5,747,646	A	5/1998	Hakimi et al.	7,365,057	B2	4/2008	LaColla et al.
5,767,097	A	6/1998	Tam	7,390,791	B2	6/2008	Becker et al.
5,792,834	A	8/1998	Hakimi et al.	7,429,572	B2	9/2008	Clark
5,830,455	A	11/1998	Valtuna et al.	7,601,820	B2	10/2009	Wang et al.
5,830,905	A	11/1998	Diana et al.	7,754,699	B2	7/2010	Chun et al.
5,834,594	A	11/1998	Hakimi et al.	7,879,815	B2	2/2011	MacCoss et al.
5,837,257	A	11/1998	Tsai et al.	7,964,580	B2	6/2011	Sofia et al.
5,846,964	A	12/1998	Ozeki	8,148,349	B2	4/2012	Meppen et al.
5,849,696	A	12/1998	Chretien et al.	8,173,621	B2	5/2012	Du et al.
5,869,253	A	2/1999	Draper	8,334,270	B2	12/2012	Sofia et al.
5,891,874	A	4/1999	Colacino et al.	8,415,322	B2	4/2013	Clark
5,905,070	A	5/1999	Schinazi et al.	8,551,973	B2	10/2013	Bao et al.
5,908,621	A	6/1999	Glue et al.	8,580,765	B2	11/2013	Sofia
5,922,757	A	7/1999	Chojkier	2001/0034440	A1	10/2001	Shepard et al.
5,928,636	A	7/1999	Alber et al.	2002/0058635	A1	5/2002	Averett
5,942,223	A	8/1999	Bazer et al.	2002/0198173	A1	12/2002	Schinazi et al.
5,980,884	A	11/1999	Blatt et al.	2003/0050229	A1	3/2003	Sommadossi et al.
5,990,276	A	11/1999	Zhang et al.	2003/0060400	A1	3/2003	LaColla et al.
6,004,933	A	12/1999	Spruce et al.	2003/0120071	A1	6/2003	McGuigan et al.
6,034,134	A	3/2000	Gold et al.	2003/0144502	A1	7/2003	Pietrzkowski et al.
6,043,077	A	3/2000	Barber et al.	2003/0153744	A1	8/2003	Mekouar et al.
6,056,961	A	5/2000	Lavie et al.	2003/0187018	A1	10/2003	Llinas-Brunet et al.
6,060,080	A	5/2000	Kikuchi et al.	2004/0006007	A1	1/2004	Gosselin et al.
6,090,932	A	7/2000	McGee et al.	2004/0014108	A1	1/2004	Eldrup et al.
6,130,326	A	10/2000	Ramasamy et al.	2004/0023240	A1	2/2004	Marliere et al.
6,132,763	A	10/2000	Fisher	2004/0023901	A1	2/2004	Cook et al.
6,156,501	A	12/2000	McGall et al.	2004/0059104	A1	3/2004	Cook et al.
6,180,134	B1	1/2001	Zalipsky et al.	2004/0063622	A1	4/2004	Sommadossi et al.
6,232,300	B1	5/2001	Schinazi et al.	2004/0067901	A1	4/2004	Bhat et al.
6,239,159	B1	5/2001	Brown et al.	2004/0072788	A1	4/2004	Bhat et al.
6,348,587	B1	2/2002	Schinazi et al.	2004/0097461	A1	5/2004	Sommadossi et al.
6,372,883	B1	4/2002	Attwood et al.	2004/0097462	A1	5/2004	Sommadossi et al.
6,391,859	B1	5/2002	Schinazi et al.	2004/0101535	A1	5/2004	Sommadossi et al.
6,410,531	B1	6/2002	Llinas-Brunet et al.	2004/0102414	A1	5/2004	Sommadossi et al.
6,420,380	B2	7/2002	Llinas-Brunet et al.	2004/0110717	A1	6/2004	Carroll et al.
6,455,513	B1	9/2002	McGuigan et al.	2004/0167140	A1	8/2004	Schinazi et al.
6,455,690	B1	9/2002	Tam et al.	2004/0191824	A1	9/2004	Dempey et al.
6,475,985	B1	11/2002	Wagner et al.	2004/0214844	A1	10/2004	Otto et al.
6,479,463	B1	11/2002	Wang et al.	2004/0229839	A1	11/2004	Babu et al.
6,495,677	B1	12/2002	Ramasamy et al.	2004/0229840	A1	11/2004	Bhat et al.
6,509,320	B1	1/2003	Wang et al.	2004/0248892	A1	12/2004	Wang
6,534,523	B1	3/2003	Llinas-Brunet et al.	2004/0254141	A1	12/2004	Schinazi et al.
6,552,183	B1	4/2003	Ramasamy et al.	2004/0259934	A1	12/2004	Olsen et al.
6,555,677	B2	4/2003	Petrillo et al.	2004/0265969	A1	12/2004	Li et al.
6,573,248	B2	6/2003	Ramasamy et al.	2004/0266996	A1	12/2004	Rabi
6,642,206	B2	11/2003	Ramasamy et al.	2005/0009737	A1	1/2005	Clark
6,660,721	B2	12/2003	Devos et al.	2005/0020825	A1	1/2005	Storer et al.
6,677,314	B2	1/2004	Kleckner et al.	2005/0026853	A1	2/2005	Mekouar et al.
6,677,315	B2	1/2004	Kleckner et al.	2005/0031588	A1	2/2005	Sommadossi et al.
6,680,303	B2	1/2004	Schinazi et al.	2005/0075309	A1	4/2005	Storer et al.
6,682,715	B2	1/2004	Kleckner et al.	2005/0080034	A1	4/2005	Standring et al.
6,683,045	B2	1/2004	Kleckner et al.	2005/0090660	A1	4/2005	Watanabe et al.
6,703,374	B1	3/2004	Kleckner et al.	2005/0124532	A1	6/2005	Sommadossi et al.
6,753,309	B2	6/2004	Kleckner et al.	2005/0130931	A1	6/2005	Boyer et al.
6,777,395	B2	8/2004	Bhat et al.	2005/0137161	A1	6/2005	Sommadossi et al.
6,784,166	B2	8/2004	Devos et al.	2005/0148534	A1	7/2005	Castellino et al.
6,787,305	B1	9/2004	Li et al.	2005/0154056	A1	7/2005	Yang et al.
6,787,526	B1	9/2004	Bryant et al.	2005/0164960	A1	7/2005	Olsen et al.
6,815,542	B2	11/2004	Hong et al.	2005/0215513	A1	9/2005	Boojamra et al.
6,846,810	B2	1/2005	Martin et al.	2005/0227947	A1	10/2005	Chen et al.
6,897,201	B2	5/2005	Boyer et al.	2005/0261237	A1	11/2005	Boojamra et al.
6,908,924	B2	6/2005	Watanabe et al.	2005/0267018	A1	12/2005	Blatt et al.
6,911,424	B2	6/2005	Schinazi et al.	2006/0003951	A1	1/2006	Mekouar et al.
6,914,054	B2	7/2005	Sommadossi et al.	2006/0014943	A1	1/2006	Dempey et al.
6,962,991	B2	11/2005	Dempey et al.	2006/0035866	A1	2/2006	Cannizzaro et al.
7,018,985	B1	3/2006	Boyer et al.	2006/0040890	A1	2/2006	Martin et al.
7,018,989	B2	3/2006	McGuigan et al.	2006/0040927	A1	2/2006	Blake et al.
7,081,449	B2	7/2006	Pietrzkowski et al.	2006/0040944	A1	2/2006	Gosselin et al.
7,105,499	B2	9/2006	Carroll et al.	2006/0079478	A1	4/2006	Boojamra et al.
7,148,206	B2	12/2006	Sommadossi et al.	2006/0110727	A9	5/2006	McGall et al.
7,163,929	B2	1/2007	Sommadossi et al.	2006/0122146	A1	6/2006	Chun et al.
7,202,224	B2	4/2007	Eldrup et al.	2006/0122154	A1	6/2006	Olsen et al.
7,217,523	B2	5/2007	Wagner	2006/0142238	A1	6/2006	McGuigan
7,268,119	B2	9/2007	Cook et al.	2006/0166964	A1	7/2006	Hudyma et al.
7,307,065	B2	12/2007	Schinazi et al.	2006/0194749	A1	8/2006	Keicher et al.
				2006/0197738	A1	9/2006	Otsubo et al.
				2006/0199783	A1	9/2006	Wang et al.
				2006/0241064	A1	10/2006	Roberts et al.
				2006/0276511	A1	12/2006	Serrano-Wu et al.

(56) References Cited			
U.S. PATENT DOCUMENTS			
2006/0293306	A1	12/2006	Beaulieu et al.
2007/0015905	A1	1/2007	LaColla et al.
2007/0037735	A1	2/2007	Gosselin et al.
2007/0037773	A1	2/2007	Sommadossi et al.
2007/0042939	A1	2/2007	LaColla et al.
2007/0042988	A1	2/2007	Klumpp et al.
2007/0042990	A1	2/2007	Gosselin et al.
2007/0049754	A1	3/2007	Boojamra et al.
2007/0060498	A1	3/2007	Gosselin et al.
2007/0060541	A1	3/2007	Gosselin et al.
2007/0087960	A1	4/2007	Storer et al.
2007/0197463	A1	8/2007	Chun et al.
2007/0225249	A1	9/2007	Shi
2007/0265222	A1	11/2007	MacCoss et al.
2007/0275912	A1	11/2007	Bhat et al.
2007/0275947	A1	11/2007	Bergstrom
2008/0070861	A1	3/2008	Clark
2008/0253995	A1	10/2008	Clark
2009/0004135	A1	1/2009	Clark
2009/0036666	A1	2/2009	Clark
2009/0137521	A1	5/2009	Hamilton et al.
2009/0176732	A1	7/2009	Beigelman et al.
2009/0233879	A1	9/2009	Reddy et al.
2009/0280084	A1	11/2009	Schinazi et al.
2009/0306007	A1	12/2009	Wagner
2010/0029008	A1	2/2010	Rojas Stutz et al.
2010/0035835	A1	2/2010	Narjes et al.
2010/0048917	A1	2/2010	Wang et al.
2010/0081628	A1	4/2010	Du et al.
2010/0137576	A1	6/2010	Stec et al.
2010/0152128	A1	6/2010	Attneni et al.
2010/0173863	A1	7/2010	Schinazi et al.
2010/0227801	A1	9/2010	Hopkins et al.
2010/0279973	A1	11/2010	Chun et al.
2010/0286083	A1	11/2010	Bao et al.
2010/0298257	A1	11/2010	Ross et al.
2010/0316594	A1	12/2010	Sommadossi et al.
2011/0015146	A1	1/2011	Sofia et al.
2011/0124592	A1	5/2011	McGuigan et al.
2011/0245484	A1	10/2011	Ross et al.
2011/0251152	A1	10/2011	Ross et al.
2011/0257122	A1	10/2011	Sofia et al.
2012/0107278	A1	5/2012	Berrey et al.
2012/0245335	A1	9/2012	Clark
2013/0029929	A1	1/2013	Sofia et al.
2013/0109647	A1	5/2013	Berrey
2013/0136776	A1	5/2013	Cleary
2013/0137654	A1	5/2013	Ross et al.
2013/0165401	A1	6/2013	Ross et al.
2013/0165644	A1	6/2013	Ross et al.
2013/0288997	A1	10/2013	Ross, et al.
2013/0310551	A1	11/2013	Ross et al.
FOREIGN PATENT DOCUMENTS			
EP	0 180 276	A1	5/1986
EP	0 350 287	A2	1/1990
EP	1 828 217	A2	9/2007
EP	1 881 001	A1	1/2008
EP	2 097 430	A1	9/2009
EP	2 124 555	A2	12/2009
EP	2 207 786	B1	3/2012
JP	5-238939	A	9/1993
WO	89/02733	A1	4/1989
WO	90/00555	A1	1/1990
WO	91/16920	A1	11/1991
WO	91/18914	A1	12/1991
WO	91/19721	A1	12/1991
WO	93/00910	A1	1/1993
WO	94/26273	A1	11/1994
WO	95/13090	A1	5/1995
WO	95/24185	A1	9/1995
WO	96/15132	A1	5/1996
WO	96/32403	A2	10/1996
WO	97/12033	A1	4/1997
WO	97/36554	A1	10/1997
WO	98/16184	A2	4/1998
WO	98/17679	A1	4/1998
WO	98/22496	A2	5/1998
WO	99/07734	A2	2/1999
WO	99/15194	A1	4/1999
WO	99/32139	A1	7/1999
WO	99/32140	A1	7/1999
WO	99/43691	A1	9/1999
WO	99/59621	A1	11/1999
WO	99/64016	A1	12/1999
WO	00/06529	A1	2/2000
WO	00/09531	A2	2/2000
WO	00/37110	A2	6/2000
WO	01/09121	A2	2/2001
WO	01/32153	A2	5/2001
WO	01/60315	A2	8/2001
WO	01/79246	A2	10/2001
WO	01/81359	A1	11/2001
WO	01/90121	A2	11/2001
WO	01/91737	A2	12/2001
WO	01/92282	A2	12/2001
WO	01/96353	A2	12/2001
WO	02/08187	A1	1/2002
WO	02/08198	A2	1/2002
WO	02/08241	A2	1/2002
WO	02/08251	A2	1/2002
WO	02/08256	A2	1/2002
WO	02/18404	A2	3/2002
WO	02/32414	A2	4/2002
WO	02/32920	A2	4/2002
WO	02/48116	A2	6/2002
WO	02/48157	A2	6/2002
WO	02/48165	A2	6/2002
WO	02/48172	A2	6/2002
WO	02/057287	A2	7/2002
WO	02/057425	A2	7/2002
WO	02/060926	A2	8/2002
WO	02/100415	A2	12/2002
WO	03/000713	A1	1/2003
WO	03/006490	A1	1/2003
WO	03/010141	A2	2/2003
WO	03/024461	A1	3/2003
WO	03/026589	A2	4/2003
WO	03/037895	A1	5/2003
WO	03/051899	A1	6/2003
WO	03/053989	A1	7/2003
WO	03/061576	A2	7/2003
WO	03/062256	A1	7/2003
WO	03/064456	A1	8/2003
WO	03/068244	A1	8/2003
WO	03/101993	A1	12/2003
WO	03/104250	A1	12/2003
WO	03/105770	A2	12/2003
WO	03/106477	A1	12/2003
WO	2004/000858	A2	12/2003
WO	2004/002422	A2	1/2004
WO	2004/002940	A1	1/2004
WO	2004/002944	A1	1/2004
WO	2004/002977	A1	1/2004
WO	2004/002999	A2	1/2004
WO	2004/003000	A2	1/2004
WO	2004/003138	A2	1/2004
WO	2004/007512	A2	1/2004
WO	2004/009020	A2	1/2004
WO	2004/009610	A2	1/2004
WO	2004/011478	A2	2/2004
WO	2004/014313	A2	2/2004
WO	2004/014852	A2	2/2004
WO	2004/035571	A1	4/2004
WO	2004/041201	A2	5/2004
WO	2004/046331	A2	6/2004
WO	2004/065367	A1	8/2004
WO	2004/080466	A1	9/2004
WO	2004/094452	A2	11/2004
WO	2004/096210	A1	11/2004
WO	2004/096234	A2	11/2004
WO	2004/096235	A2	11/2004

(56)

References Cited

OTHER PUBLICATIONS

- FOREIGN PATENT DOCUMENTS
- | | | | |
|----|-------------|----|---------|
| WO | 2004/096286 | A2 | 11/2004 |
| WO | 2004/106356 | A1 | 12/2004 |
| WO | 2005/002626 | A2 | 1/2005 |
| WO | 2005/003147 | A2 | 1/2005 |
| WO | 2005/007810 | A2 | 1/2005 |
| WO | 2005/009418 | A2 | 2/2005 |
| WO | 2005/012327 | A2 | 2/2005 |
| WO | 2005/020884 | A2 | 3/2005 |
| WO | 2005/021568 | A2 | 3/2005 |
| WO | 2005/028502 | A1 | 3/2005 |
| WO | 2005/037214 | A2 | 4/2005 |
| WO | 2005/067900 | A2 | 7/2005 |
| WO | 2005/072361 | A2 | 8/2005 |
| WO | 2005/082144 | A1 | 9/2005 |
| WO | 2005/087788 | A2 | 9/2005 |
| WO | 2005/095403 | A2 | 10/2005 |
| WO | 2005/103045 | A1 | 11/2005 |
| WO | 2005/123087 | A2 | 12/2005 |
| WO | 2006/000922 | A2 | 1/2006 |
| WO | 2006/012078 | A2 | 2/2006 |
| WO | 2006/012440 | A2 | 2/2006 |
| WO | 2006/020082 | A1 | 2/2006 |
| WO | 2006/029081 | A2 | 3/2006 |
| WO | 2006/031725 | A2 | 3/2006 |
| WO | 2006/035061 | A1 | 4/2006 |
| WO | 2006/037028 | A2 | 4/2006 |
| WO | 2006/050161 | A2 | 5/2006 |
| WO | 2006/063149 | A1 | 6/2006 |
| WO | 2006/063717 | A2 | 6/2006 |
| WO | 2006/065335 | A2 | 6/2006 |
| WO | 2006/065590 | A2 | 6/2006 |
| WO | 2006/067606 | A1 | 6/2006 |
| WO | 2006/093801 | A1 | 9/2006 |
| WO | 2006/100310 | A1 | 9/2006 |
| WO | 2006/116557 | A1 | 11/2006 |
| WO | 2006/120251 | A1 | 11/2006 |
| WO | 2006/120252 | A2 | 11/2006 |
| WO | 2006/121820 | A1 | 11/2006 |
| WO | 2007/002602 | A2 | 1/2007 |
| WO | 2007/014920 | A1 | 2/2007 |
| WO | 2007/014921 | A1 | 2/2007 |
| WO | 2007/014922 | A1 | 2/2007 |
| WO | 2007/014925 | A1 | 2/2007 |
| WO | 2007/014926 | A1 | 2/2007 |
| WO | 2007/015824 | A2 | 2/2007 |
| WO | 2007/020193 | A2 | 2/2007 |
| WO | 2007/027248 | A2 | 3/2007 |
| WO | 2007/039142 | A1 | 4/2007 |
| WO | 2007/039145 | A1 | 4/2007 |
| WO | 2007/065829 | A1 | 6/2007 |
| WO | 2007/070556 | A2 | 6/2007 |
| WO | 2007/076034 | A2 | 7/2007 |
| WO | 2007/088148 | A1 | 8/2007 |
| WO | 2007/092000 | A1 | 8/2007 |
| WO | 2007/093901 | A1 | 8/2007 |
| WO | 2007/095269 | A2 | 8/2007 |
| WO | 2008/010921 | A2 | 1/2008 |
| WO | 2008/045419 | A1 | 4/2008 |
| WO | 2008/048128 | A1 | 4/2008 |
| WO | 2008/062206 | A2 | 5/2008 |
| WO | 2008/079206 | A1 | 7/2008 |
| WO | 2008/082601 | A2 | 7/2008 |
| WO | 2008/085508 | A2 | 7/2008 |
| WO | 2008/142055 | A2 | 11/2008 |
| WO | 2009/052287 | A1 | 4/2009 |
| WO | 2009/115893 | A2 | 9/2009 |
| WO | 2009/120878 | A2 | 10/2009 |
| WO | 2009/129120 | A2 | 10/2009 |
| WO | 2009/152095 | A2 | 12/2009 |
| WO | 2010/042834 | A1 | 4/2010 |
| WO | 2010/075554 | A1 | 7/2010 |
| WO | 2010/080878 | A1 | 7/2010 |
- Siddiqui, Adam Q., et al., "The Presence of Substituents on the Aryl Moiety of the Aryl Phosphoramidate Derivatives of d4T Enhances Anti-HIV Efficacy in Cell Culture: A Structure-Activity Relationship," *J. Med. Chem.* (1999) 42:393-399.
- Dumez, Darin, et al., "Large-Scale Synthesis and Formulation of GMP-Grade Stampidine, a New Anti-HIV Agent," *Arzneim.-Forsch./Drug Res.* (2006) 56(2a):136-151.
- Gudmundsson, Kristjan S., et al., "Phosphoramidate Protides of 2',3'-Dideoxy-3'-fluoro-adenosine and Related Nucleosides with Potent Activity Against HIV and HBV," *Nucleosides, Nucleotides & Nucleic Acids* (2003) 22 (10):1953-1961.
- Nakayama, Kensaku, et al., "A Highly Enantioselective Synthesis of Phosphate Triesters," *J. Am. Chem. Soc.* (1990) 112:6936-6942.
- Wozniak, Lucyna A., et al., "The stereospecific synthesis of P-chiral biophosphates and their analogues by the Stec reaction," *Chem. Soc. Rev.* (2003) 32:158-169.
- Uchiyama, Mamoru, et al., "O-Selective Phosphorylation of Nucleosides without N-Protection," *J. Org. Chem.* (1993) 58:373-379.
- Written Opinion of the International Searching Authority issued in International Application No. PCT/US2004/012472 (7 pages) (Nov. 30, 2005).
- International Preliminary Report on Patentability and Written Opinion of the International Searching Authority issued in International Application No. PCT/US2004/012472 (8 pages) (Dec. 1, 2005).
- International Preliminary Report on Patentability and Written Opinion of the International Searching Authority issued in International Application No. PCT/US2005/025916 (5 pages) (Jan. 23, 2007).
- International Preliminary Report on Patentability and Written Opinion of the International Searching Authority issued in International Application No. PCT/US2005/032406 (4 pages) (Mar. 10, 2009).
- International Preliminary Report on Patentability and Written Opinion of the International Searching Authority issued in International Application No. PCT/EP2006/069060 (7 pages) (Nov. 5, 2008).
- Written Opinion of the International Searching Authority issued in the International Application No. PCT/US/2008/058183 (16 pages) (Apr. 1, 2010).
- International Search Report issued in International Application No. PCT/US2009/046619 (4 pages) (Sep. 23, 2010).
- Partial International Search Report issued in International Application No. PCT/US2009/069475 (7 pages) (Mar. 5, 2010).
- International Search Report and Written Opinion of the International Searching Authority issued in International Application No. PCT/US2009/069475 (21 pages) (May 10, 2010).
- Invitation to Pay Additional Fees & Partial International Search Report issued in International Application No. PCT/US2010/035641 (10 pages) (Jul. 23, 2010).
- International Search Report and Written Opinion of the International Searching Authority issued in PCT/US2010/035641 (23 pages) (Nov. 20, 2011).
- Murakami, E., et al., "The Mechanism of Action of beta-D-2'-Deoxy-2'-fluoro-2'-C-methylcytidine Involves a Second Metabolic Pathway Leading to beta-D-2'-Deoxy-2'-fluoro-2'-C-methyluridine 5'-Triphosphate, a Potent Inhibitor of the HCV RNA-Dependent RNA Polymerase," 14th International Symposium on Hepatitis C Virus and Related Viruses, Glasgow, Scotland (Sep. 2007).
- Gillespie, S., et al., "Stereoselective Inhibition of Cholesterol Esterase by Enantiomeric Phosphonates," *Phosphorous, Sulfur and Silicon*, 1997, 122: 205-208.
- U.S. Appl. No. 12/553,483, Non-Final Office Action Rejection, mailed Dec. 17, 2009.
- U.S. Appl. No. 12/240,342, Non-Final Office Action Rejection, mailed Oct. 1, 2009.
- U.S. Appl. No. 12/142,554, Non-Final Office Action Rejection, mailed Oct. 1, 2009.
- U.S. Appl. No. 12/142,536, Non-Final Office Action Rejection, mailed Oct. 2, 2009.
- U.S. Appl. No. 11/854,218, Non-Final Office Action Rejection, mailed Oct. 1, 2009.

(56)

References Cited

OTHER PUBLICATIONS

- U.S. Appl. No. 11/635,898, Non-Final Office Action Rejection, mailed Jul. 28, 2009.
- U.S. Appl. No. 11/353,597, Final Office Action Rejection, mailed Dec. 2, 2008.
- U.S. Appl. No. 11/353,597, Non-Final Office Action Rejection, mailed Jul. 17, 2008.
- U.S. Appl. No. 11/353,597, Non-Final Office Action Rejection, mailed Oct. 2, 2007.
- U.S. Appl. No. 11/225,425, Final Office Action Rejection, mailed Feb. 18, 2010.
- Response to non-final Office Action dated Oct. 1, 2009 for U.S. Appl. No. 12/142,554.
- U.S. Appl. No. 11/225,425, Non-Final Office Action Rejection, mailed Jul. 7, 2009.
- U.S. Appl. No. 11/225,425, Non-Final Office Action Rejection, mailed Nov. 13, 2008.
- U.S. Appl. No. 10/828,753, Non-Final Office Action Rejection, mailed Mar. 30, 2007.
- U.S. Appl. No. 10/828,753, Final Office Action Rejection, mailed Feb. 26, 2008.
- McGuigan, Christopher, et al., Certain Phosphoramidate Derivatives of Dideoxy Uridine (ddU) Are Active Against HIV and Successfully By-pass Thymidine Kinase, *FEBS Letters* (1994), 351, 11-14.
- Cahard, Dominique, et al., Aryloxy Phosphoramidate Triesters as Pro-Tides, *Mini-Reviews in Medicinal Chemistry* (2004), 4, 371-381.
- Abraham et al., "Synthesis and Biological Activity of Aromatic Amino Acid Phosphoramidates of 5-fluoro-2'-deoxyuridine and 1-beta-Arabinofuranosylcytosine: Evidence of Phosphoramidase Activity," *J. Med. Chem.*, vol. 39, No. 23, pp. 4569-4575, (1996).
- Pogam et al., "No Evidence of R7128 Drug Resistance After Up to 4 Weeks Treatment of GT1, 2 and 3 Hepatitis C Virus Infected Individuals", 44th Annual Meeting of European Association for the Study of the Liver (EASL), Copenhagen, Denmark (Apr. 22-26, 2009).
- Sofia et al., "beta-D-2'-Deoxy-2'-C-methyluridine Phosphoramidates: Potent and Selective Inhibitors of HCV RNA Replication", Poster #P-259, 14th International Symposium on Hepatitis C Virus and Related Viruses, Glasgow, Scotland, UK (Sep. 9 to 13, 2007).
- Sofia, M.J., "beta-D-2'-Deoxy-2'-fluoro-2'-C-methyluridine Phosphoramidates: Potent and Selective Inhibitors of HCV RNA Replication", 2nd International Workshop on HCV—Resistance and New Compounds (Oct. 31, 2007).
- Sofia et al., "beta-D-2'-Deoxy-2'-fluoro-2'-C-methyluridine Phosphoramidates: Potent and Selective Inhibitors of HCV RNA Replication", 2nd International Workshop on HCV, Poster #7 (Oct. 31, 2007).
- Sofia, M.J., "R7128, A Potent and Selective Nucleoside Inhibitor of HCV NS5B Polymerase: An Overview of Clinical Efficacy and Progress Toward Second Generation Inhibitors", *HCV Drug Discovery 2008*, Chicago, IL (Apr. 28, 2008).
- Response filed Oct. 25, 2010 at the EPO for European patent application No. EP08732818.3.
- Abraham et al., "Synthesis, Biological Activity and Decomposition Studies of Amino Acid Phosphoramidates of Acyclovir," *Nucleosides, Nucleotides and Nucleic Acids*, vol. 16, No. 10, pp. 2079-2092 (1997).
- Balzarini et al., "Mechanism of anti-HIV action of masked alaninyl d4t-MP derivatives," *Proc. Natl. Acad. Sci.*, vol. 93, pp. 7295-7299 (1996).
- Chang et al., "Amino Acid Phosphoramidate Monoesters of 3'-Azido-3'-deoxythymidine: Relationship between Antiviral Potency and Intracellular Metabolism," *J. Med. Chem.*, vol. 44, No. 2, pp. 223-231 (2001).
- Chen et al., "In Vivo Pharmacokinetics and Metabolism of Anti-Human Immunodeficiency Virus Agent D4t-5'-[P-Bromophenyl Methoxyalaninyl Phosphate] (Sampidine) in Mice," *Drug Metabolism and Disposition*, vol. 29, No. 7, pp. 1035-1041 (2001).
- Chen et al., "Metabolism of Stavudine-5'-[P-Bromophenyl Methoxyalaninyl Phosphate], Stampidine, in Mice, Dogs, and Cats," *Drug Metabolism and Disposition*, vol. 30, No. 12, pp. 1523-1531 (2002).
- Chou et al., "Evidence that Human Histidine Triad Nucleotide Binding Protein 3 (Hint3) is a Distinct Branch of the Histidine Triad (HIT) Superfamily," *J. Mol. Biol.*, vol. 373, pp. 978-989 (2007).
- Chou et al., "Phosphoramidate Pronucleotides: A Comparison of the Phosphoramidase Substrate Specificity of Human and *Escherichia coli* Histidine Triad Nucleotide Binding Proteins," *Molecular Pharmaceutics*, vol. 4, No. 2, pp. 208-217 (2006).
- Cihlar et al., "Design and Profiling of GS-9148, a Novel Nucleotide Analog Active against Nucleoside-Resistant Variants of Human Immunodeficiency Virus Type 1, and Its Orally Bioavailable Phosphonoamidate Prodrug, GS-9131," *Antimicrobial Agents and Chemotherapy*, vol. 52, No. 2, pp. 655-665 (2008).
- Congiatu et al., "Molecular Modeling Studies on the Binding of Some Protides to the Putative Human Phosphoramidase Hint1," *Nucleosides, Nucleotides and Nucleic Acids*, vol. 26, pp. 1121-1124 (2007).
- Congiatu et al., "Naphthyl Phosphoramidate Derivatives of BVdU as Potential Anticancer Agents: Design, Synthesis and Biological Evaluation," *Nucleosides, Nucleotides, and Nucleic Acids*, vol. 24, No. 5-7, pp. 485-489 (2005).
- Curley et al., "Synthesis and anti-HIV evaluation of some phosphoramidate derivatives of AZT: studies on the effect of chain elongation on biological activity," *Antiviral Research*, vol. 14, pp. 345-356 (1990).
- D'Cruz et al., "Stampidine: a selective oculo-genital microbicide," *Journal of Antimicrobial Chemotherapy*, vol. 56, pp. 10-19 (2005).
- Drontle et al., "Designing a Pronucleotide Stratagem: Lessons from Amino Acid Phosphoramidates of Anticancer and Antiviral Pyrimidines," *MiniReviews in Medicinal Chemistry*, vol. 4, No. 4, pp. 409-419 (2004).
- Egron et al., "S-Acyl-2-thioethyl Phosphoramidate Diester Derivatives as Mononucleotide Prodrugs" *J. Med. Chem.*, vol. 46, No. 21, pp. 4564-4571 (2003).
- Howes et al., "The Regiospecific One-Pot Phosphorylation of Either the 5'-or 2'-Hydroxyl in 3'-Deoxycytidines Without Protection: Critical Role of the Base," *Nucleosides, Nucleotides, and Nucleic Acids*, vol. 22, No. 5-8, pp. 687-689 (2003).
- Iyer et al., "Synthesis, in Vitro Anti-Breast Cancer Activity, and Intracellular Decomposition of Amino Acid Methyl Ester and Alkyl Amide Phosphoramidate Monoesters of 3'-Azido-3'-deoxythymidine (AZT)," *J. Med. Chem.*, vol. 43, No. 11, pp. 2266-2274 (2000).
- Kim et al., "Monitoring the Intracellular Metabolism of Nucleoside Phosphoramidate Pronucleotides by 31P NMR," *Nucleosides, Nucleotides and Nucleic Acid*, vol. 23, No. 1 & 2, pp. 483-493 (2004).
- Lehsten et al., "An Improved Procedure for the Synthesis of Nucleoside Phosphoramidates," *Organic Process Research and Development*, vol. 6, pp. 819-822 (2002).
- McGuigan et al., "Aryl phosphate derivatives of AZT retain activity against HIV1 in cell lines which are resistant to the action of AZT," *Antiviral Research*, vol. 17, pp. 311-321 (1992).
- McGuigan et al., "Application of Phosphoramidate ProTide Technology Significantly Improves Antiviral Potency of Carbocyclic Adenosine Derivatives," *J. Med. Chem.*, vol. 49, No. 24, pp. 7215-7226 (2006).
- McGuigan et al., "Application of Phosphoramidate Pronucleotides Technology to Abacavir Leads to a Significant Enhancement of Antiviral Potency," *J. Med. Chem.*, vol. 48, No. 10, pp. 3504-3515 (2005).
- McGuigan et al., "Aryl Phosphoramidate Derivatives of d4T Have Improved Anti-HIV Efficacy in Tissue Culture and May Act by the Generation of a Novel Intracellular Metabolite," *J. Med. Chem.*, vol. 39, No. 8, pp. 1748-1753 (1996).
- McGuigan et al., "Synthesis and anti-HIV activity of some novel chain-extended phosphoramidate derivatives of d4T (stavudine): esterase hydrolysis as a rapid predictive test for antiviral potency," *Antiviral Chemistry and Chemotherapy*, vol. 9, pp. 109-115 (1998).

(56)

References Cited

OTHER PUBLICATIONS

- McGuigan et al., "Synthesis and evaluation of some novel phosphoramidate derivatives of 3'-azido-3'-deoxythymidine (AZT) as anti-HIV compounds," *Antiviral Chemistry and Chemotherapy*, vol. 1, No. 2, pp. 107-113 (1990).
- McIntee et al., "Probing the Mechanism of Action and Decomposition of Amino Acid Phosphomonoester Amides of Antiviral Nucleoside Prodrugs," *J. Med. Chem.*, vol. 40, No. 21, pp. 3323-3331 (1997).
- Perrone et al., "First Example of Phosphoramidate Approach Applied to a 4'-Substituted Purine Nucleoside (4'-Azidoadenosine): Conversion of an Inactive Nucleoside to a Submicromolar Compound versus Hepatitis C Virus," *J. Med. Chem.*, vol. 50, No. 22, pp. 5463-5470 (2007).
- Perrone et al. "Application of the Phosphoramidate ProTide Approach to 4'-Azidouridine Confers Sub-micromolar Potency versus Hepatitis C Virus on an Inactive Nucleoside," *J. Med. Chem.*, vol. 50, No. 8, 1840-1849 (2007).
- Saboulard et al., "Characterization of the Activation Pathway of Phosphoramidate Triester Prodrugs of Stavudine and Zidovudine," *Mol. Pharmacol.*, vol. 56, pp. 693-704 (1999).
- Schultz, C., "Prodrugs of Biologically Active Phosphate Esters" *Bioorg. and Med. Chem.*, vol. 11, pp. 885-898 (2003).
- Siccardi et al., "Stereoselective and Concentration-Dependent Polarized Epithelial Permeability of a Series of Phosphoramidate Triester Prodrugs of d4T: An In Vitro Study in Caco-2 and Madin-Darby Canine Kidney Cell Monolayers," *J. Pharmacol. and Exp. Ther.*, vol. 307, No. 3, pp. 1112-1119 (2003).
- Siccardi et al., "Stereospecific chemical and enzymatic stability of phosphoramidate triester prodrugs of d4T in vitro," *European Journal of Pharmaceutical Sciences*, vol. 22, pp. 25-31 (2004).
- Siddiqui et al., "Design and Synthesis of Lipophilic Phosphoramidate d4T-MP Prodrugs Expressing High Potency Against HIV in Cell Culture: Structural Determinants for in Vitro Activity and QSAR," *J. Med. Chem.*, vol. 42, No. 20, pp. 4122-4128 (1999).
- Siddiqui et al., "Enhancing the Aqueous Solubility of d4T-based Phosphoramidate Prodrugs," *Bioorg. and Med. Chem. Lett.*, vol. 10, pp. 381-384 (2000).
- Song et al., "Pharmacokinetics of Amino Acid Phosphoramidate Monoesters of Zidovudine in Rats," *Antimicrobial Agents and Chemotherapy*, vol. 46, No. 5, pp. 1357-1363 (2002).
- Uckun et al., "In Vivo Pharmacokinetics and Toxicity Profile of the Anti-HIV Agent Stampidine in Dogs and Feline Immunodeficiency Virus-infected Cats," *Arzneim.-Forsch./Drug Res.*, vol. 56, No. 2a, pp. 176-192 (2006).
- Valette et al., "Decomposition Pathways and in Vitro HIV Inhibitory Effects of IsoddA Pronucleotides: Toward a Rational Approach for Intracellular Delivery of Nucleoside 5'-Monophosphates," *J. Med. Chem.*, vol. 39, No. 10, pp. 1981-1990 (1996).
- Venkatachalam et al., "Synthesis and metabolism of naphthyl substituted phosphoramidate derivatives of stavudine," *Bioorg. and Med. Chem.*, vol. 14, pp. 5161-5177 (2006).
- Venkatachalam et al., "Rational Drug Design of Multifunctional Phosphoramidate Substituted Nucleoside Analogs," *Current Pharmaceutical Design*, vol. 10, No. 15, pp. 1713-1726 (2004).
- Wagner et al., "Antiviral Nucleoside Drug Delivery via Amino Acid Phosphoramidates," *Nucleosides, Nucleotides and Nucleic Acids*, vol. 18, No. 4 & 5, pp. 913-919 (1999).
- Wu et al., "Synthesis and Biological Activity of a Gemcitabine Phosphoramidate Prodrug," *J. Med. Chem.*, vol. 50, No. 15, pp. 3743-3746 (2007).
- Gunic et al., "6-Hydrazinopurine 2'-methyl ribonucleosides and their 5'-monophosphate prodrugs as potent hepatitis C virus inhibitors," *Bioorg. & Med. Chem. Lett.*, vol. 17, pp. 2456-2458 (2007).
- International Search Report issued in International PCT application No. PCT/US2008/058183 mailed Mar. 31, 2010 (7 pages).
- International Preliminary Examination Report along with Written Opinion of the International Searching Authority issued in International PCT application No. PCT/US2008/058183 issued Apr. 7, 2010 (17 pages).
- Mitchell et al., "Bioreversible Protection for the Phospho Group: Bioactivation of the Di(4-acyloxybenzyl) and Mono(4-acyloxybenzyl) Phosphoesters of Methylphosphonate and Phosphonoacetate," *J. Chem. Soc. Perkin. Trans. 1*, pp. 2345-2353 (1992).
- Olsen et al., "2'-Modified Nucleoside Analogs as Inhibitors of Hepatitis C RNA Replication," Program and Abstracts, 16th International Conference on Antiviral Research, Abstract No. 121, p. A76 (Apr. 27-May 1, 2003).
- Otto, M., "Evaluation of Nucleoside Analogs in the Hepatitis C Virus Replicon System," Framing the Knowledge of Therapeutics for Viral Hepatitis, IHL Press, First Edition, pp. 247-261 (2006).
- Piantadosi et al., "Synthesis and Evaluation of Novel Ether Lipid Nucleoside Conjugates for Anti-HIV-1 Activity," *J. Med. Chem.*, vol. 34, No. 4, pp. 1408-1414 (1991).
- Pierra et al., "Synthesis and Pharmacokinetics of Valopicitabine (NM283), an Efficient Prodrug of the Potent Anti-HCV Agent 2'-C-Methylcytidine," *J. Med. Chem.*, vol. 49, No. 22, pp. 6614-6620 (2006).
- Starrett, Jr. et al., "Synthesis, Oral Bioavailability Determination, and in Vitro Evaluation of Prodrugs of the Antiviral Agent 9-[2-(Phosphonomethoxy)ethyl]adenine (PMEA)," *J. Med. Chem.*, vol. 37, No. 12, pp. 1857-1864 (1994).
- Stuyver et al., "Inhibition of hepatitis C replicon RNA synthesis by B-D-2'-deoxy-2'-fluoro-2'-C-methylcytidine: a specific inhibitor of hepatitis C virus replication," *Antiviral Chemistry & Chemotherapy*, vol. 17, No. 2, pp. 79-87 (2006).
- Stuyver et al., "Dynamics of Subgenomic Hepatitis C Virus Replicon RNA Levels in Huh-7 Cells after Exposure to Nucleoside Antimetabolites," *J. Virol.*, vol. 77, No. 19, pp. 10689-10694 (2003).
- Stuyver et al., "Ribonucleoside Analogue that Blocks Replication of Bovine Viral Diarrhea and Hepatitis C Viruses in Culture," *Antimicrobial Agents and Chemotherapy*, vol. 47, No. 1, pp. 244-254 (2003).
- Wolff, M.E., "Burger's Medicinal Chemistry and Drug Discovery," Fifth Edition, vol. 1, pp. 975-977 (1995).
- Zon, G., "4 Cyclophosphamide Analogues," *Progress in Medicinal Chemistry*, vol. 19, pp. 205-246 (1982).
- Bhat et al., "Synthesis and Pharmacokinetic Properties of Nucleoside Analogues as Possible Inhibitors of HCV RNA Replication," (Oral Session V: Hepatitis C Virus, Flaviviruses), 16th International Conference on Antiviral Research, Abstract No. 120, p. A75 (Apr. 27-May 1, 2003).
- Chu et al., "Isolation and Structure of SCH 351633: A Novel Hepatitis C Virus (HCV) NS3 Protease Inhibitor from the Fungus *Penicillium griseofulvum*," *Bioorg. & Med. Chem. Lett.*, vol. 9, pp. 1949-1952 (1999).
- Chu et al., "Structure of Sch 68631: A New Hepatitis C Virus Proteinase Inhibitor from *Streptomyces* sp." *Tet. Lett.*, vol. 37, No. 40, pp. 7229-7232 (1996).
- De Lombaert et al., "N-Phosphonomethyl Dipeptides and Their Phosphonate Prodrugs, a New Generation of Neutral Endopeptidase (NEP, EC 3.4.24.11) Inhibitors," *J. Med. Chem.*, vol. 37, No. 4, pp. 498-511 (1994).
- Edmundson et al., "Cyclic Organophosphorus Compounds. Part 23. Configurational Assignments in the 4-Phenyl-1,3,2-dioxaphosphorinane Series. X-Ray Molecular Structure of cis-2-Benzylamino-4-phenyl-1,3,2-dioxaphosphorinane 2-oxide," *J. Chem. Research (S)*, pp. 122-123 (1989).
- Goekjian et al., "Synthesis of Fluorinated Marcocyclic Bis(indolyl)maleimides as Potential 19F NMR Probes for Protein Kinase C," *J. Org. Chem.*, vol. 64, No. 12, pp. 4238-4246 (1999).
- Hernandez et al., "Synthesis of Highly Functionalized Chiral Nitriles by Radical Fragmentation of beta-Hydroxy Azides. Convenient Transformation of Aldonitriles into 1,4- and 1,5-Iminoalditols," *J. Org. Chem.*, vol. 69, No. 24, pp. 8437-8444 (2004).
- Hostetler et al., "Greatly Enhanced Inhibition of Human Immunodeficiency Virus Type 1 Replication in CEM and HT4-6C Cells by 3'-Deoxythymidine Diphosphate Dimyristoylglycerol, a

(56)

References Cited

OTHER PUBLICATIONS

Lipid Prodrug of 3'-Deoxythymidine," *Antimicrobial Agents and Chemotherapy*, vol. 36, No. 9, pp. 2025-2029 (1992).

Kucera et al., "Novel Membrane-Interactive Ether Lipid Analogs That Inhibit Infectious HIV-1 Production and Induce Defective Virus Formation," *Aids Research and Human Retroviruses*, vol. 6, No. 4, pp. 491-501 (1990).

Meier et al., "Cyclic Saligenyl Phosphotriesters of 2',3' -Dideoxy-2',3'-dideoxythymidine (d4T)—A New Pro-Nucleotide Approach," *Bioorg. & Med. Chem. Lett.*, vol. 7, No. 2, pp. 99-104, (1997).

Neidlein et al., "Mild Preparation of 1-Benzyloxyminoalkylphosphonic Dichlorides: Application to the Synthesis of Cyclic Phosphonic Diesters and Cyclic Monoester Amides," *Heterocycles*, vol. 35, No. 2, pp. 1185-1203 (1993).

Nifant'ev et al., "Synthesis and Structure of Some Stable Phospholane-Phospholanes," *Phosphorus, Sulfur, and Silicon*, vol. 113, pp. 1-13 (1996).

Novak, J. J. K., "Chiroptical Properties of 2-Methyl-1,4-Lactones; Revised Absolute Configuration of 2-Deoxy-2-C-Methyl-erythro-D-Pentono-1,4-Lactones," *Collection Czechoslov. Chem. Commun.*, vol. 39, pp. 869-882 (1974).

Novak, J. J. K., "Nucleic Acid Components and Their Analogues CXLIII. Nucleosides Derived from 2-Deoxy-2(R)-C-Methyl-erythro-D-Pentose," *Collection Czechoslov. Chem. Commun.*, vol. 36, pp. 3670-3677 (1971).

Oishi et al., "Asymmetric Dihydroxylation of Chiral Olefins. High Control of Diastereofacial Selection," *Tet. Lett.*, vol. 34, No. 22, pp. 3573-3576 (1993).

Shih et al., "Preparation and Structures of 2-Dimethylamino-4-phenyl-1,3,2-dioxaphosphorinane-2-oxides," *Bull. Inst. Chem., Acad. Sin.*, vol. 41, pp. 9-16, (Mar. 1994).

Stella, V. J., "Prodrugs as Therapeutics," *Expert opinion on therapeutic patents*, vol. 14, No. 3, pp. 277-280 (Mar. 2004).

Xiao-Ling et al., "Study on the Chirality of Sulfur in Ethyl (2S, 3R,4R)-4,5-O-Isopropylidene-2,3-sulfinyl;-2,3,4,5-tetrahydroxypentanoate", *Acta Chimica Sinica*, vol. 55, pp. 600-604 (1997).

Xiao-Ling et al., "The Synthesis of (2S,3R)-Sphingosine from D-Mannitol", *Acta Chimica Sinica*, vol. 54, pp. 826-832 (1996).

International Search Report issued in International Application No. PCT/US2004/012472 mailed Dec. 30, 2004 (4 pages).

International Search Report issued in International Application No. PCT/US2005/025916 mailed Jun. 15, 2006 (2 pages).

International Search Report issued in International Application No. PCT/EP2006/069060 mailed Jan. 30, 2007 (4 pages).

International Search Report issued in International Application No. PCT/US2005/032406 mailed May 8, 2008 (3 pages).

Bartschlager et al., "Nonstructural Protein 3 of the Hepatitis C Virus Encodes a Serine-Type Proteinase Required for Cleavage at the NS3/4 and NS4/5 Junctions," *J. Virol.*, vol. 67, No. 7, pp. 3835-3844 (1993).

Bartschlager et al., "Kinetic and Structural Analyses of Hepatitis C Virus Polyprotein Processing," *J. Virol.*, vol. 68, No. 8, pp. 5045-5055 (1994).

Bazan et al., "Detection of a Trypsin-like Serine Protease Domain in Flaviviruses and Pestiviruses," *Virology*, vol. 171, pp. 637-639 (1989).

Beaulieu et al., "Inhibitors of the HCV NS5B polymerase: New hope for the treatment of hepatitis C infections," *Current Opinion in Investigational Drugs*, vol. 5, No. 8, pp. 838-850 (2004).

Behrens et al., "Identification and properties of the RNA-dependent RNA polymerase of hepatitis C virus," *The EMBO Journal*, vol. 15, No. 1, pp. 12-22 (1996).

Calisher et al., "Antigenic Relationships between Flaviviruses as Determined by Cross-neutralization Tests with Polyclonal Antisera," *J. Gen. Virol.*, vol. 70, pp. 37-43 (1989).

Carroll et al., "Nucleoside Analog Inhibitors of Hepatitis C Virus Replication," *Infectious Disorders—Drug Targets*, vol. 6, No. 1, pp. 17-29 (2006).

Eckart et al., "The Hepatitis C Virus Encodes a Serine Protease Involved in Processing of the Putative Nonstructural Proteins from the Viral Polyprotein Precursor," *Biochemical and Biophysical Research Communications*, vol. 192, No. 2, pp. 399-406 (1993).

Failla et al., "Both NS3 and NS4A are Required for Proteolytic Processing of Hepatitis C Virus Nonstructural Proteins," *J. Virol.*, vol. 68, No. 6, pp. 3753-3760 (1994).

Rice, C. M., "Flaviviridae: The Viruses and Their Replication," *Fields Virology*, 3rd Edition, vol. 1, pp. 931-959 (1996).

Gorbalenya et al., "A conserved NTP-motif in putative helicases," *Nature*, vol. 333, p. 22 (1988).

Gorbalenya et al., "N-terminal domains of putative helicases of flaviviruses may be serine proteases," *Nucleic Acids Research*, vol. 17, No. 10, pp. 3889-3897 (1989).

Grakoui et al., "Characterization of the Hepatitis C Virus-Encoded Serine Proteinase: Determination of Proteinase-Dependent Polyprotein Cleavage Sites," *J. Virol.*, vol. 67, No. 5, pp. 2832-2843 (1993).

Grakoui et al., "A second hepatitis C virus-encoded proteinase," *Proc. Natl. Acad. Sci.*, vol. 90, pp. 10583-10587 (1993).

Griffith et al., "HCV Anti-viral Agents," *Annual Reports in Medicinal Chemistry*, vol. 39, pp. 223-237 (2004).

Halstead, S. B., "Selective Primary Health Care: Strategies for Control of Disease in the Developing World. XI. Dengue," *Review of Infectious Diseases*, vol. 6, No. 2, pp. 251-263 (1984).

Yuodka et al., *Bioorganicheskaya Khimiya*, 2(11), 1513-1519 (1976) (translated from Russian).

Baschang et al., "Neue Derivate von Thymidin-3',5'-cyclophosphat," *Angew. Chem.*, vol. 85, No. 1, pp. 44-45 (1973).

Broeders et al., "A 400- and 600-Mhz ¹H NMR Conformational Study on Nucleoside Cyclic 3', 5' PV-TBP Systems. Conformational Transition Induces Diequatorial Orientation of the 3', 5'-Dioxaphosphorinane Ring in a Nonchair Confirmation," *J. Am. Chem. Soc.*, vol. 112, No. 21, pp. 7475-7482 (1990).

Engels et al., "Cyclophosphate, III. Synthese und Eigenschaften von Uridin-3',5'-cyclophosphat-estern," *Chemische Berichte*, vol. 110, No. 6, pp. 2019-2027 (1977).

Lopez Aparicio et al., "Synthesis of Saccharinic Acid Derivatives," *Carbohydrate Research*, vol. 129, pp. 99-109 (1984).

Nelson et al., "The Question of Chair-twist Equilibria for the Phosphate Rings of Nucleoside Cyclic 3',5'-Monophosphates. 1H NMR and X-ray Crystallographic Study of Diastereomers of Thymidine Phenyl Cyclic 3',5'-Monophosphate," *J. Am. Chem. Soc.*, vol. 109, No. 13, pp. 4058-4064 (1987).

The Extended search report includes the supplementary European search report issued in European Application No. 05775359.2 dated Sep. 15, 2010 (9 pages).

International Preliminary Report on Patentability and Written Opinion of the International Searching Authority issued in International Application No. PCT/EP2006/069060 (13 pages).

Gromova et al., "Optical Rotatory Dispersion and Circular Dichroism of Mono- and Oligonucleotide-Amino Acids (Amidates)," *Biochim. Biophys. Acta.*, vol. 240, No. 1, pp. 1-11 (1971).

Harris et al., "Synthesis and antiviral evaluation of phosphoramidate derivatives of (E)-5-(2-bromovinyl)-2'-deoxyuridine," *Antiviral Chemistry & Chemotherapy*, vol. 12, No. 5, pp. 293-300 (2001).

Judoka et al., "Oligonucleotides and Nucleotide-Peptides. XXXIV. Synthesis and Some Properties of Complex Nucleotidyl (Oligonucleotidyl)-P(N)-Amino Acids (Peptides) and Their Ethyl Esters," *J. Carbohydrates Nucleosides Nucleotides*, vol. 6, No. 4, pp. 333-357 (1979).

Judoka et al., "Oligonucleotides and Nucleotide-Peptides. XXXV. Some Properties of Nucleotidyl-(5'-N)-Amino Acid Esters Differing in Amino Acid and Nucleotide Components," *J. Carbohydrates Nucleosides Nucleotides*, vol. 8, No. 1, pp. 19-39 (1981).

Judoka et al., "Oligonucleotides and Nucleotide-Peptides. XXXVII. On the Mechanism of Hydrolysis of Uridyl-(5'-N)-Amino Acids. Intramolecular Catalysis by the alpha-Carboxyl Group of Amino Acids," *J. Carbohydrates Nucleosides Nucleotides*, vol. 8, No. 6, pp. 519-535 (1981).

(56)

References Cited

OTHER PUBLICATIONS

- Lackey et al., "Enzyme-catalyzed therapeutic agent (ECTA) design: activation of the antitumor ECTA compound NB1011 by thymidylate synthase," *Biochemical Pharmacology*, vol. 61, No. 2, pp. 179-189 (2001).
- McIntee et al., "Amino Acid Phosphoramidate Nucleosides: Potential ADEPT/GDEPT Substrates," *Bioorganic & Medicinal Chemistry Letters*, vol. 11, No. 21, pp. 2803-2805 (2001).
- Remy et al., "Studies on Flourinated Pyrimidines. XIV. The Synthesis of Derivatives of 5-Fluoro-2'-deoxyuridine 5'-Phosphate and Related Compounds," *J. Org. Chem.*, vol. 27, No. 7, pp. 2491-2500 (1962).
- Smirnov et al., "A Fluorescent Study of Tryptophan Derivatives of Oligonucleotides and Their Helical Complexes with Polyuridylic," *FEBS Letters*, vol. 51, No. 1, pp. 211-214 (1975).
- Yuodka et al., "Oligonucleotides and Polynucleotides. XXVI. Synthesis of Esters of Nucleotidyl- and Oligonucleotidyl-(5'-N)-(Amino Acid)S and -Peptides," *Soviet Journal of Bioorganic Chemistry*, vol. 2, No. 11 pp. 1089-1094 (1976) Translated from Russian.
- U.S. Appl. No. 60/392,350, filed Jun. 28, 2002.
- U.S. Appl. No. 60/392,351, filed Jun. 28, 2002.
- Asif et al., "Pharmacokinetics of the Antiviral Agent B-D-2'-Deoxy-2'-Fluoro-2'-C-Methylcytidine in Rhesus Monkeys," *Antimicrobial Agents and Chemotherapy*, vol. 51, No. 8, pp. 2877-2882 (2007).
- Banker et al., "Prodrugs," *Modern Pharmaceutics*, Third Edition, Revised and Expanded, pp. 451 and 596 (1996).
- Battaglia et al., "Combination Therapy with Interferon and Ribavirin in the Treatment of Chronic Hepatitis C Infection," *The Annals of Pharmacotherapy*, vol. 34, No. 4, pp. 487-494 (2000).
- Berenguer, M., "Hepatitis C virus in the transplant setting," *Antiviral Therapy*, vol. 3, Supplement 3, pp. 125-136 (1998).
- Clark et al., "Design, Synthesis, and Antiviral Activity of 2'-Deoxy-2'-fluoro-2'-C-methylcytidine, a Potent Inhibitor of Hepatitis C Virus Replication," *J. Med. Chem.*, vol. 48, No. 17, pp. 5504-5508 (2005).
- Davis, G. L., "Current Therapy for Chronic Hepatitis C," *Gastroenterology*, vol. 118, No. 2, pp. S104-S114 (2000).
- Eldrup et al., "Oral Session V: Hepatitis C Virus, Flaviviruses," *Program and Abstracts, The Sixteenth International Conference on Antiviral Research*, p. A75, Abstract 119 (Apr. 27 to May 1, 2003).
- Eldrup et al., "Structure-Activity Relationship of Purine Ribonucleosides for Inhibition of Hepatitis C Virus RNA-Dependent RNA Polymerase," *J. Med. Chem.*, vol. 47, No. 9, pp. 2283-2295 (2004).
- Farquhar et al., "Synthesis and Biological Evaluation of Neutral Derivatives of 5-Fluoro-2'-deoxyuridine 5'-Phosphate," *J. Med. Chem.*, vol. 26, No. 8, pp. 1153-1158 (1983).
- Farquhar et al., "Synthesis of Biological Evaluation of 9[5'-(2-Oxo-1,3,2-oxazaphosphorinan-2-yl)-beta-D-arabinosyl] adenine and 9[5'-(2-Oxo-1,3,2-dioxaphosphorinan-2-yl)-beta-D-arabinosyl]adenine: Potential Neutral Precursors of 9-[beta-D-Arabinofuranosyl]adenine 5'-Monophosphate," *J. Med. Chem.*, vol. 28, No. 9, pp. 1358-1361 (1985).
- Freed et al., "Evidence for acyloxymethyl esters of pyrimidine 5'-deoxyribonucleotides as extracellular sources of active 5'-deoxyribonucleotides in cultured cells," *Biochemical Pharmacology*, vol. 38, No. 19, pp. 3193-3198 (1989).
- Hertel et al., "Synthesis of 2-Deoxy-2,2-difluoro-D-ribose and 2-Deoxy-2,2-difluoro-D-ribofuranosyl Nucleosides," *J. Org. Chem.*, vol. 53, No. 11, pp. 2406-2409 (1988).
- Hostetler et al., "Synthesis and Antiretroviral Activity of Phospholipid Analogs of Azidothymidine and Other Antiviral Nucleosides," *J. Biol. Chem.*, vol. 265, No. 11, pp. 6112-6117 (1990).
- Hunston et al., "Synthesis and Biological Properties of Some Cyclic Phosphotriesters Derived from 2'-Deoxy-5-fluorouridine," *J. Med. Chem.*, vol. 27, No. 4, pp. 440-444 (1984).
- International Search Report issued in International Application No. PCT/US2005/025916 mailed Jun. 15, 2006.
- Jones et al., "Minireview: Nucleotide Prodrugs," *Antiviral Research*, vol. 27, No. 1-2pp. 1-17 (1995).
- Khamnei et al., "Neighboring Group Catalysis in the Design of Nucleotide Prodrugs," *J. Med. Chem.*, vol. 39, No. 20, pp. 4109-4115 (1996).
- Kotra et al., "Structure-Activity Relationships of 2'-Deoxy-2',2'-difluoro-L-erythro-pentofuranosyl Nucleosides," *J. Med. Chem.*, vol. 40, No. 22, pp. 3635-3644 (1997).
- Kryuchkov et al., "Influence of Solvent on the Strength of Cyclic Oxygen-Containing Phosphorus Acids," *Bulletin of the Academy of Sciences of the USSR. Division of Chemical Science*, vol. 36, No. 6, Part 1, pp. 1145-1148 (1987) Translated from Russian.
- Li et al., "Synthesis of the Phosphoramidite Derivative of 2'-Deoxy-2'-C-beta-methylcytidine," *J. Org. Chem.*, vol. 68, No. 17, pp. 6799-6802 (2003).
- Ma et al., "Characterization of the Metabolic Activation of Hepatitis C Virus Nucleoside Inhibitor B-D-2'-Deoxy-2'-Fluoro-2'-C-Methylcytidine (PSI-6130) and Identification of a Novel Active 5'-Triphosphate Species," *J. Biol. Chem.*, vol. 282, No. 41, pp. 29812-29820 (Oct. 12, 2007).
- Halstead, S. B., "Pathogenesis of Dengue: Challenges to Molecular Biology," *Science*, vol. 239, pp. 476-481 (1988).
- Hijikata et al., "Two Distinct Proteinase Activities required for the Processing of a Putative Nonstructural Precursor Protein of Hepatitis C Virus," *J. Virol.*, vol. 67, No. 8, pp. 4665-4675 (1993).
- Jin et al., "Expression, Isolation, and characterization of the Hepatitis C Virus ATPase/RNA Helicase," *Archives of Biochemistry and Biophysics*, vol. 323, No. 1, pp. 47-53 (1995).
- Kim et al., "C-Terminal Domain of the Hepatitis C Virus NS3 Protein Contains an RNA Helicase Activity," *Biochemical and Biophysical Research Communications*, vol. 215, No. 1, pp. 160-166 (1995).
- Koonin et al., "Evolution and Taxonomy of Positive-Strand RNA Viruses: Implications of Comparative Analysis of Amino Acid Sequences," *Critical Reviews in Biochemistry and Molecular Biology*, vol. 28, No. 5, pp. 375-430 (1993).
- Lohmann et al., "Biochemical Properties of Hepatitis C Virus NS5B RNA-Dependent RNA Polymerase and Identification of Amino Acid Sequence Motifs Essential for Enzymatic Activity," *J. Virol.*, vol. 71, No. 11, pp. 8416-8428 (1997).
- Meyers et al., "Molecular Characterization of Pestiviruses," *Advances in Virus Research*, vol. 47, pp. 53-119 (1996).
- Moennig et al., "The Pestiviruses," *Advances in Virus Research*, vol. 41, pp. 53-99 (1992).
- Monath, T. P., M.D., "Japanese Encephalitis—A Plague of the Orient," *N. Engl. J. Med.*, vol. 319, No. 10, pp. 641-643 (Sep. 8, 1988).
- Ni et al., "Progress and development of small molecule HCV antivirals," *Current Opinion in Drug Discovery & Development*, vol. 7, No. 4, pp. 446-459 (2004).
- Tan et al., "Hepatitis C Therapeutics: current Status and Emerging Strategies," *Nature Reviews*, vol. 1, pp. 867-881 (2002).
- Tomei et al., "NS3 Is a Serine Protease Required for Processing of Hepatitis C Virus Polyprotein," *J. Virol.*, vol. 67, No. 7, pp. 4017-4026 (1993).
- Walker et al., "Promising candidates for the treatment of chronic hepatitis C," *Expert Opin. Investig. Drugs*, vol. 12, No. 8, pp. 1269-1280 (2003).
- Warner et al., "Pestivirus NS3 (p80) Protein Possesses RNA Helicase Activity," *J. Virol.*, vol. 69, No. 3, pp. 1720-1726 (1995).
- Wiskerchen et al., "Pestivirus Gene Expression: Protein p80 of Bovine Viral Diarrhea Virus Is a Proteinase Involved in Polyprotein Processing," *Virology*, vol. 184, pp. 341-350 (1991).
- Wu et al., "Targeting NS5B RNA-Dependent RNA Polymerase for Anti-HCV Chemotherapy," *Current Drug Targets—Infectious Disorders*, vol. 3, No. 3, pp. 207-219 (2003).
- Xu et al., "Bovine Viral Diarrhea Virus NS3 Serine Proteinase: Polyprotein Cleavage Sites, Cofactor Requirements, and Molecular Model of an Enzyme Essential for Pestivirus Replication," *J. Virol.*, vol. 71, No. 7, pp. 5312-5322 (1997).
- Yuan et al., "Expression, Purification, and Partial Characterization of HCV RNA Polymerase," *Biochemical and Biophysical Research Communications*, vol. 232, No. 1, pp. 231-235 (1997).
- Zhong et al., "Identification and characterization of an RNA-Dependent RNA Polymerase Activity within the Nonstructural Protein 5B Region of Bovine Viral Diarrhea Virus," *J. Virol.*, vol. 72, No. 11, pp. 9365-9369 (1998).

(56)

References Cited

OTHER PUBLICATIONS

Aquaro et al., "Activities of Masked 2',3'-Dideoxynucleoside Monophosphate Derivatives Against Human Immunodeficiency Virus in Resting Macrophages," *Antimicrobial Agents and Chemotherapy*, vol. 44, No. 1, pp. 173-177 (2000).

Chapman et al., "Purification of PMPA Amidate Prodrugs by SMB Chromatography and X-Ray Crystallography of the Diastereomerically Pure GS-7340," *Nucleosides, Nucleotides & Nucleic Acids*, vol. 20, No. 4-7, pp. 1085-1090 (2001).

Chapman et al., "Practical Synthesis, Separation, and Stereochemical Assignment of the PMPA Pro-Drug GS-7340," *Nucleosides, Nucleotides & Nucleic Acids*, vol. 20, No. 4-7, pp. 621-628 (2001).

Eisenberg et al., "Metabolism of GS-7340, a Novel Phenyl Monophosphoramidate Intracellular Prodrug of PMPA, in Blood," *Nucleosides, Nucleotides & Nucleic Acids*, vol. 20, No. 4-7, pp. 1091-1098 (2001).

Lee et al., "Selective Intracellular Activation of a Novel Prodrug of the Human Immunodeficiency Virus reverse Transcriptase Inhibitor Tenofovir Leads to Preferential Distribution and Accumulation in Lymphatic Tissue," *Antimicrobial Agents and Chemotherapy*, vol. 49, No. 5, pp. 1898-1906 (2005).

McGuigan et al., "Synthesis, anti-human immunodeficiency virus activity and esterase lability of some novel carboxylic ester-modified phosphoramidate derivatives of stavudine (d4T)," *Antiviral Chemistry & Chemotherapy*, vol. 9, pp. 473-479 (1998).

Murakami et al., "The Mechanism of Action of beta-D-2'-Deoxy-2'-Fluoro-2'-C-Methylcytidine Involves a Second Metabolic Pathway Leading to beta-D-2'-Deoxy-2'-Fluoro-2'-C-Methyluridine 5'-Triphosphate, a Potent Inhibitor of the Hepatitis C Virus RNA-Dependent RNA Polymerase," *Antimicrobial Agents and Chemotherapy*, vol. 52, No. 2, pp. 458-464 (2008).

Murakami et al., "Mechanism of Activation of beta-D-2'-Deoxy-2'-Fluoro-2'-C-Methylcytidine and Inhibition of hepatitis C Virus NS5B RNA Polymerase," *Antimicrobial Agents and Chemotherapy*, vol. 51, No. 2, pp. 503-509 (Feb. 2007).

Ray et al., "Intracellular Metabolism of the Nucleotide Prodrugs GS-9131, a Potent Anti-Human Immunodeficiency Virus Agent," *Antimicrobial Agents and Chemotherapy*, vol. 52, No. 2, pp. 648-654 (2008).

Stuyver et al., "Inhibition of the Subgenomic Hepatitis C Virus Replicon in Huh-7 Cells by 2'-Deoxy-2'-Fluorocytidine," *Antimicrobial Agents and Chemotherapy*, vol. 48, No. 2, pp. 651-654 (2004).
U.S. Appl. No. 14/013,237, filed Aug. 29, 2013.

Claims of U.S. Appl. No. 14/013,237 as amended Aug. 30, 2013.

U.S. Appl. No. 13/956,195, filed Jul. 31, 2013.

Claims of U.S. Appl. No. 13/956,195 as amended Oct. 21, 2013.

1

NUCLEOSIDE PHOSPHORAMIDATE PRODRUGS

CROSS-REFERENCE TO RELATED APPLICATIONS

This application is a continuation application of U.S. patent application Ser. No. 13/609,614, filed Sep. 11, 2012, which is a continuation of U.S. patent application Ser. No. 13/099,671, filed May 3, 2011, which issued as U.S. Pat. No. 8,334,270 on Dec. 18, 2012, which is a continuation of U.S. patent application Ser. No. 12/053,015, filed Mar. 21, 2008, which issued as U.S. Pat. No. 7,964,580 on Jun. 21, 2011, which claims the benefit of U.S. Provisional Application No. 60/982,309, filed Oct. 24, 2007, and U.S. Provisional Application No. 60/909,315, filed Mar. 30, 2007. The entire contents of the aforementioned applications are incorporated herein by reference in their entirety.

INCORPORATION OF SEQUENCE LISTING

The Sequence Listing filed on Oct. 10, 2012 (in U.S. patent application Ser. No. 13/609,614, filed Sep. 11, 2012), created on Sep. 30, 2012, named 039560538002_ST25.txt, having a size in bytes of 1,091 B, is hereby incorporated by reference herein in its entirety.

FIELD OF INVENTION

The present invention pertains to nucleoside phosphoramidates and their use as agents for treating viral diseases. These compounds are inhibitors of RNA-dependent RNA viral replication and are useful as inhibitors of HCV NS5B polymerase, as inhibitors of HCV replication and for treatment of hepatitis C infection in mammals. The invention provides novel chemical compounds, and the use of these compounds alone or in combination with other antiviral agents for treating HCV infection.

BACKGROUND

Hepatitis C virus (HCV) infection is a major health problem that leads to chronic liver disease, such as cirrhosis and hepatocellular carcinoma, in a substantial number of infected individuals, estimated to be 2-15% of the world's population. There are an estimated 4.5 million infected people in the United States alone, according to the U.S. Center for Disease Control. According to the World Health Organization, there are more than 200 million infected individuals worldwide, with at least 3 to 4 million people being infected each year. Once infected, about 20% of people clear the virus, but the rest can harbor HCV the rest of their lives. Ten to twenty percent of chronically infected individuals eventually develop liver-destroying cirrhosis or cancer. The viral disease is transmitted parenterally by contaminated blood and blood products, contaminated needles, or sexually and vertically from infected mothers or carrier mothers to their offspring. Current treatments for HCV infection, which are restricted to immunotherapy with recombinant interferon- α alone or in combination with the nucleoside analog ribavirin, are of limited clinical benefit. Moreover, there is no established vaccine for HCV. Consequently, there is an urgent need for improved therapeutic agents that effectively combat chronic HCV infection.

The HCV virion is an enveloped positive-strand RNA virus with a single oligoribonucleotide genomic sequence of about 9600 bases which encodes a polyprotein of about 3,010

2

amino acids. The protein products of the HCV gene consist of the structural proteins C, E1, and E2, and the non-structural proteins NS2, NS3, NS4A and NS4B, and NS5A and NS5B. The nonstructural (NS) proteins are believed to provide the catalytic machinery for viral replication. The NS3 protease releases NS5B, the RNA-dependent RNA polymerase from the polyprotein chain. HCV NS5B polymerase is required for the synthesis of a double-stranded RNA from a single-stranded viral RNA that serves as a template in the replication cycle of HCV. Therefore, NS5B polymerase is considered to be an essential component in the HCV replication complex (K. Ishi, et al., *Hepatology*, 1999, 29: 1227-1235; V. Lohmann, et al., *Virology*, 1998, 249: 108-118). Inhibition of HCV NS5B polymerase prevents formation of the double-stranded HCV RNA and therefore constitutes an attractive approach to the development of HCV-specific antiviral therapies.

HCV belongs to a much larger family of viruses that share many common features.

Flaviviridae Viruses

The Flaviviridae family of viruses comprises at least three distinct genera: pestiviruses, which cause disease in cattle and pigs; flaviviruses, which are the primary cause of diseases such as dengue fever and yellow fever; and hepaciviruses, whose sole member is HCV. The flavivirus genus includes more than 68 members separated into groups on the basis of serological relatedness (Calisher et al., *J. Gen. Virol.*, 1993, 70, 37-43). Clinical symptoms vary and include fever, encephalitis and hemorrhagic fever (*Fields Virology*, Editors: Fields, B. N., Knipe, D. M., and Howley, P. M., Lippincott-Raven Publishers, Philadelphia, Pa., 1996, Chapter 31, 931-959). Flaviviruses of global concern that are associated with human disease include the Dengue Hemorrhagic Fever viruses (DHF), yellow fever virus, shock syndrome and Japanese encephalitis virus (Halstead, S. B., *Rev. Infect. Dis.*, 1984, 6, 251-264; Halstead, S. B., *Science*, 239:476-481, 1988; Monath, T. P., *New Eng. J. Med.*, 1988, 319, 64 1-643).

The pestivirus genus includes bovine viral diarrhea virus (BVDV), classical swine fever virus (CSFV, also called hog cholera virus) and border disease virus (BDV) of sheep (Moennig, V. et al. *Adv. Vir. Res.* 1992, 41, 53-98). Pestivirus infections of domesticated livestock (cattle, pigs and sheep) cause significant economic losses worldwide. BVDV causes mucosal disease in cattle and is of significant economic importance to the livestock industry (Meyers, G. and Thiel, H. J., *Advances in Virus Research*, 1996, 47, 53-118; Moennig V., et al., *Adv. Vir. Res.* 1992, 41, 53-98). Human pestiviruses have not been as extensively characterized as the animal pestiviruses. However, serological surveys indicate considerable pestivirus exposure in humans.

Pestiviruses and hepaciviruses are closely related virus groups within the Flaviviridae family. Other closely related viruses in this family include the GB virus A, GB virus A-like agents, GB virus-B and GB virus-C (also called hepatitis G virus, HGV). The hepacivirus group (hepatitis C virus; HCV) consists of a number of closely related but genotypically distinguishable viruses that infect humans. There are at least 6 HCV genotypes and more than 50 subtypes. Due to the similarities between pestiviruses and hepaciviruses, combined with the poor ability of hepaciviruses to grow efficiently in cell culture, bovine viral diarrhea virus (BVDV) is often used as a surrogate to study the HCV virus.

The genetic organization of pestiviruses and hepaciviruses is very similar. These positive stranded RNA viruses possess a single large open reading frame (ORF) encoding all the viral proteins necessary for virus replication. These proteins are expressed as polyprotein that is co- and post-translationally processed by both cellular and virus-encoded proteinases to

yield the mature viral proteins. The viral proteins responsible for the replication of the viral genome RNA are located within approximately the carboxy-terminal. Two-thirds of the ORF are termed nonstructural (NS) proteins. The genetic organization and polyprotein processing of the nonstructural protein portion of the ORF for pestiviruses and hepaciviruses is very similar. For both the pestiviruses and hepaciviruses, the mature nonstructural (NS) proteins, in sequential order from the amino-terminus of the nonstructural protein coding region to the carboxy-terminus of the ORF, consist of p7, NS2, NS3, NS4A, NS4B, NS5A, and NS5B.

The NS proteins of pestiviruses and hepaciviruses share sequence domains that are characteristic of specific protein functions. For example, the NS3 proteins of viruses in both groups possess amino acid sequence motifs characteristic of serine proteinases and of helicases (Gorbalenya et al., *Nature*, 1988, 333, 22; Bazan and Fletterick *Virology*, 1989, 171, 637-639; Gorbalenya et al., *Nucleic Acid Res.*, 1989, 17, 3889-3897). Similarly, the NS5B proteins of pestiviruses and hepaciviruses have the motifs characteristic of RNA-directed RNA polymerases (Koonin, E. V. and Dolja, V. V., *Crit. Rev. Biochem. Molec. Biol.* 1993, 28, 375-430).

The actual roles and functions of the NS proteins of pestiviruses and hepaciviruses in the lifecycle of the viruses are directly analogous. In both cases, the NS3 serine proteinase is responsible for all proteolytic processing of polyprotein precursors downstream of its position in the ORF (Wiskerchen and Collett, *Virology*, 1991, 184, 341-350; Bartenschlager et al., *J. Virol.* 1993, 67, 3835-3844; Eckart et al. *Biochem. Biophys. Res. Comm.* 1993, 192, 399-406; Grakoui et al., *J. Virol.* 1993, 67, 2832-2843; Grakoui et al., *Proc. Natl. Acad. Sci. USA* 1993, 90, 10583-10587; Hijikata et al., *J. Virol.* 1993, 67, 4665-4675; Tome et al., *J. Virol.*, 1993, 67, 4017-4026). The NS4A protein, in both cases, acts as a cofactor with the NS3 serine protease (Bartenschlager et al., *J. Virol.* 1994, 68, 5045-5055; Failla et al., *J. Virol.* 1994, 68, 3753-3760; Xu et al., *J. Virol.*, 1997, 71:53 12-5322). The NS3 protein of both viruses also functions as a helicase (Kim et al., *Biochem. Biophys. Res. Comm.*, 1995, 215, 160-166; Jin and Peterson, *Arch. Biochem. Biophys.*, 1995, 323, 47-53; Warriner and Collett, *J. Virol.* 1995, 69, 1720-1726). Finally, the NS5B proteins of pestiviruses and hepaciviruses have the predicted RNA-directed RNA polymerase activity (Behrens et al., *EMBO*, 1996, 15, 12-22; Lechmann et al., *J. Virol.*, 1997, 71, 8416-8428; Yuan et al., *Biochem. Biophys. Res. Comm.* 1997, 232, 231-235; Hagedorn, PCT WO 97/12033; Zhong et al., *J. Virol.*, 1998, 72, 9365-9369).

Currently, there are limited treatment options for individuals infected with hepatitis C virus. The current approved therapeutic option is the use of immunotherapy with recombinant interferon- α alone or in combination with the nucleoside analog ribavirin. This therapy is limited in its clinical effectiveness and only 50% of treated patients respond to therapy. Therefore, there is significant need for more effective and novel therapies to address the unmet medical need posed by HCV infection.

A number of potential molecular targets for drug development of direct acting antivirals as anti-HCV therapeutics have now been identified including, but not limited to, the NS2-NS3 autoprotease, the NS3 protease, the NS3 helicase and the NS5B polymerase. The RNA-dependent RNA polymerase is absolutely essential for replication of the single-stranded, positive sense, RNA genome and this enzyme has elicited significant interest among medicinal chemists.

Inhibitors of HCV NS5B as potential therapies for HCV infection have been reviewed: Tan, S.-L., et al., *Nature Rev. Drug Discov.*, 2002, 1, 867-881; Walker, M. P. et al., *Exp.*

Opin. Investigational Drugs, 2003, 12, 1269-1280; Ni, Z.-J., et al., *Current Opinion in Drug Discovery and Development*, 2004, 7, 446-459; Beaulieu, P. L., et al., *Current Opinion in Investigational Drugs*, 2004, 5, 838-850; Wu, J., et al., *Current Drug Targets-Infectious Disorders*, 2003, 3, 207-219; Griffith, R. C., et al., *Annual Reports in Medicinal Chemistry*, 2004, 39, 223-237; Carrol, S., et al., *Infectious Disorders-Drug Targets*, 2006, 6, 17-29. The potential for the emergence of resistant HCV strains and the need to identify agents with broad genotype coverage supports the need for continuing efforts to identify novel and more effective nucleosides as HCV NS5B inhibitors.

Nucleoside inhibitors of NS5B polymerase can act either as a non-natural substrate that results in chain termination or as a competitive inhibitor which competes with nucleotide binding to the polymerase. To function as a chain terminator the nucleoside analog must be taken up by the cell and converted in vivo to a triphosphate to compete for the polymerase nucleotide binding site. This conversion to the triphosphate is commonly mediated by cellular kinases which imparts additional structural requirements on a potential nucleoside polymerase inhibitor. Unfortunately, this limits the direct evaluation of nucleosides as inhibitors of HCV replication to cell-based assays capable of in situ phosphorylation.

In some cases, the biological activity of a nucleoside is hampered by its poor substrate characteristics for one or more of the kinases needed to convert it to the active triphosphate form. Formation of the monophosphate by a nucleoside kinase is generally viewed as the rate limiting step of the three phosphorylation events. To circumvent the need for the initial phosphorylation step in the metabolism of a nucleoside to the active triphosphate analog, the preparation of stable phosphate prodrugs has been reported. Nucleoside phosphoramidate prodrugs have been shown to be precursors of the active nucleoside triphosphate and to inhibit viral replication when administered to viral infected whole cells (McGuigan, C., et al., *J. Med. Chem.*, 1996, 39, 1748-1753; Valette, G., et al., *J. Med. Chem.*, 1996, 39, 1981-1990; Balzarini, J., et al., *Proc. National Acad Sci USA*, 1996, 93, 7295-7299; Siddiqui, A. Q., et al., *J. Med. Chem.*, 1999, 42, 4122-4128; Eisenberg, E. J., et al., *Nucleosides, Nucleotides and Nucleic Acids*, 2001, 20, 1091-1098; Lee, W. A., et al., *Antimicrobial Agents and Chemotherapy*, 2005, 49, 1898); US 2006/0241064; and WO 2007/095269.

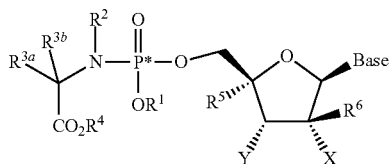
Also limiting the utility of nucleosides as viable therapeutic agents is their sometimes poor physicochemical and pharmacokinetic properties. These poor properties can limit the intestinal absorption of an agent and limit uptake into the target tissue or cell. To improve on their properties prodrugs of nucleosides have been employed. It has been demonstrated that preparation of nucleoside phosphoramidates improves the systemic absorption of a nucleoside and furthermore, the phosphoramidate moiety of these "pronucleotides" is masked with neutral lipophilic groups to obtain a suitable partition coefficient to optimize uptake and transport into the cell dramatically enhancing the intracellular concentration of the nucleoside monophosphate analog relative to administering the parent nucleoside alone. Enzyme-mediated hydrolysis of the phosphate ester moiety produces a nucleoside monophosphate wherein the rate limiting initial phosphorylation is unnecessary.

SUMMARY OF THE INVENTION

The present invention is directed toward novel phosphoramidate prodrugs of nucleoside derivatives for the treatment of viral infections in mammals, which is a compound, its stere-

5

oisomers, salts (acid or basic addition salts), hydrates, solvates, or crystalline forms thereof, represented by the following structure:



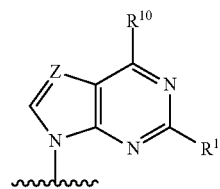
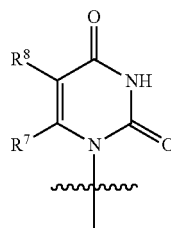
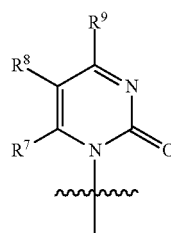
wherein

- (a) R^1 is hydrogen, n-alkyl; branched alkyl; cycloalkyl; or aryl, which includes, but is not limited to, phenyl or naphthyl, where phenyl or naphthyl are optionally substituted with at least one of C_{1-6} alkyl, C_{2-6} alkenyl, C_{2-6} alkynyl, C_{1-6} alkoxy, F, Cl, Br, I, nitro, cyano, C_{1-6} haloalkyl, $-N(R^1)_2$, C_{1-6} acylamino, $-NHSO_2C_{1-6}$ alkyl, $-SO_2N(R^1)_2$, COR^1 , and $-SO_2C_{1-6}$ alkyl; (R^1 is independently hydrogen or alkyl, which includes, but is not limited to, C_{1-20} alkyl, C_{1-10} alkyl, or C_{1-6} alkyl, R^1 is $-OR^1$ or $-N(R^1)_2$);
- (b) R^2 is hydrogen, C_{1-10} alkyl, R^{3a} or R^{3b} and R^2 together are $(CH_2)_n$ so as to form a cyclic ring that includes the adjoining N and C atoms, $C(O)CR^{3a}R^{3b}NHR^1$, where n is 2 to 4 and R^1 , R^{3a} , and R^{3b} ;
- (c) R^{3a} and R^{3b} are (i) independently selected from hydrogen, C_{1-10} alkyl, cycloalkyl, $-(CH_2)_c(NR^3)_2$, C_{1-6} hydroxyalkyl, $-CH_2SH$, $-(CH_2)_dS(O)_eMe$, $-(CH_2)_3NHC(=NH)NH_2$, (1H-indol-3-yl)methyl, (1H-imidazol-4-yl)methyl, $-(CH_2)_eCOR^3$, aryl and aryl C_{1-3} alkyl, said aryl groups optionally substituted with a group selected from hydroxyl, C_{1-10} alkyl, C_{1-6} alkoxy, halogen, nitro and cyano; (ii) R^{3a} and R^{3b} both are C_{1-6} alkyl; (iii) R^{3a} and R^{3b} together are $(CH_2)_f$ so as to form a spiro ring; (iv) R^{3a} is hydrogen and R^{3b} and R^2 together are $(CH_2)_n$ so as to form a cyclic ring that includes the adjoining N and C atoms (v) R^{3b} is hydrogen and R^{3a} and R^2 together are $(CH_2)_n$ so as to form a cyclic ring that includes the adjoining N and C atoms, where c is 1 to 6, d is 0 to 2, e is 0 to 3, f is 2 to 5, n is 2 to 4, and where R^3 is independently hydrogen or C_{1-6} alkyl and R^3 is $-OR^3$ or $-N(R^3)_2$; (vi) R^{3a} is H and R^{3b} is H, CH_3 , CH_2CH_3 , $CH(CH_3)_2$, $CH_2CH(CH_3)_2$, $CH(CH_3)CH_2CH_3$, CH_2Ph , CH_2 -indol-3-yl, $-CH_2CH_2SCH_3$, CH_2CO_2H , $CH_2C(O)NH_2$, CH_2CH_2COOH , $CH_2CH_2C(O)NH_2$, $CH_2CH_2CH_2CH_2NH_2$, $-CH_2CH_2CH_2NHC(NH)NH_2$, CH_2 -imidazol-4-yl, CH_2OH , $CH(OH)CH_3$, $CH_2((4'-OH)-Ph)$, CH_2SH , or lower cycloalkyl; or (viii) R^{3a} is CH_3 , $-CH_2CH_3$, $CH(CH_3)_2$, $CH_2CH(CH_3)_2$, $CH(CH_3)CH_2CH_3$, CH_2Ph , CH_2 -indol-3-yl, $-CH_2CH_2SCH_3$, CH_2CO_2H , $CH_2C(O)NH_2$, CH_2CH_2COOH , $CH_2CH_2C(O)NH_2$, $CH_2CH_2CH_2CH_2NH_2$, $-CH_2CH_2CH_2NHC(NH)NH_2$, CH_2 -imidazol-4-yl, CH_2OH , $CH(OH)CH_3$, $CH_2((4'-OH)-Ph)$, CH_2SH , or lower cycloalkyl and R^{3b} is H, where R^3 is independently hydrogen or alkyl, which includes, but is not limited to, C_{1-20} alkyl, C_{1-10} alkyl, or C_{1-6} alkyl, R^3 is $-OR^3$ or $-N(R^3)_2$);
- (d) R^4 is hydrogen, C_{1-10} alkyl, C_{1-10} alkyl optionally substituted with a lower alkyl, alkoxy, di(lower alkyl)-amino, or halogen, C_{1-10} haloalkyl, C_{3-10} cycloalkyl, cycloalkyl alkyl, cycloheteroalkyl, aminoacyl, aryl,

6

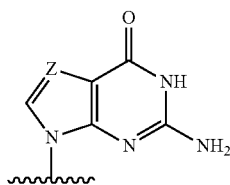
such as phenyl, heteroaryl, such as, pyridinyl, substituted aryl, or substituted heteroaryl;

- (e) R^5 is H, a lower alkyl, CN, vinyl, O-(lower alkyl), hydroxyl lower alkyl, i.e., $-(CH_2)_pOH$, where p is 1-6, including hydroxylmethyl (CH_2OH), CH_2F , N_3 , CH_2CN , CH_2NH_2 , CH_2NHCH_3 , $CH_2N(CH_3)_2$, alkyne (optionally substituted), or halogen, including F, Cl, Br, or I, with the provisos that when X is OH, base is cytosine and R^6 is H, R^5 cannot be N_3 and when X is OH, R^6 is CH_3 or CH_2F and B is a purine base, R^5 cannot be H;
- (f) R^6 is H, CH_3 , CH_2F , CHF_2 , CF_3 , F, or CN;
- (g) X is H, OH, F, OMe, halogen, NH_2 , or N_3 ;
- (h) Y is OH, H, C_{1-4} alkyl, C_{2-4} alkenyl, C_{2-4} alkynyl, vinyl, N_3 , CN, Cl, Br, F, I, NO_2 , $OC(O)O(C_{1-4}$ alkyl), $OC(O)O(C_{1-4}$ alkyl), $OC(O)O(C_{2-4}$ alkynyl), $OC(O)O(C_{2-4}$ alkenyl), OC_{1-10} haloalkyl, O(aminoacyl), $O(C_{1-10}$ acyl), $O(C_{1-4}$ alkyl), $O(C_{2-4}$ alkenyl), $S(C_{1-4}$ acyl), $S(C_{1-4}$ alkyl), $S(C_{2-4}$ alkynyl), $S(C_{2-4}$ alkenyl), $SO(C_{1-4}$ acyl), $SO(C_{1-4}$ alkyl), $SO(C_{2-4}$ alkynyl), $SO(C_{2-4}$ alkenyl), $SO_2(C_{1-4}$ acyl), $SO_2(C_{1-4}$ alkyl), $SO_2(C_{2-4}$ alkynyl), $SO_2(C_{2-4}$ alkenyl), $OS(O)_2(C_{1-4}$ acyl), $OS(O)_2(C_{1-4}$ alkyl), $OS(O)_2(C_{2-4}$ alkenyl), NH_2 , $NH(C_{1-4}$ alkyl), $NH(C_{2-4}$ alkenyl), $NH(C_{2-4}$ alkynyl), $NH(C_{1-4}$ acyl), $N(C_{1-4}$ alkyl) $_2$, $N(C_{1-18}$ acyl) $_2$, wherein alkyl, alkynyl, alkenyl and vinyl are optionally substituted by N_3 , CN, one to three halogen (Cl, Br, F, I), NO_2 , $C(O)O(C_{1-4}$ alkyl), $C(O)O(C_{1-4}$ alkyl), $C(O)O(C_{2-4}$ alkynyl), $C(O)O(C_{2-4}$ alkenyl), $O(C_{1-4}$ acyl), $O(C_{1-4}$ alkyl), $O(C_{2-4}$ alkenyl), $S(C_{1-4}$ acyl), $S(C_{1-4}$ alkyl), $S(C_{2-4}$ alkynyl), $S(C_{2-4}$ alkenyl), $SO(C_{1-4}$ acyl), $SO(C_{1-4}$ alkyl), $SO(C_{2-4}$ alkynyl), $SO(C_{2-4}$ alkenyl), $SO_2(C_{1-4}$ acyl), $SO_2(C_{1-4}$ alkyl), $SO_2(C_{2-4}$ alkynyl), $SO_2(C_{2-4}$ alkenyl), $OS(O)_2(C_{1-4}$ acyl), $OS(O)_2(C_{1-4}$ alkyl), $OS(O)_2(C_{2-4}$ alkenyl), NH_2 , $NH(C_{1-4}$ alkyl), $NH(C_{2-4}$ alkenyl), $NH(C_{2-4}$ alkynyl), $NH(C_{1-4}$ acyl), $N(C_{1-4}$ alkyl) $_2$, $N(C_{1-4}$ acyl) $_2$;
- the base is a naturally occurring or modified purine or pyrimidine base represented by the following structures:



7

-continued



wherein

Z is N or CR¹²;

R⁷, R⁸, R⁹, R¹⁰, and R¹¹ are independently H, F, Cl, Br, I, OH, OR', SH, SR', NH₂, NHR', NR'₂, lower alkyl of C₁-C₆, halogenated (F, Cl, Br, I) lower alkyl of C₁-C₆, lower alkenyl of C₂-C₆, halogenated (F, Cl, Br, I) lower alkenyl of C₂-C₆, lower alkynyl of C₂-C₆ such as halogenated (F, Cl, Br, I) lower alkynyl of C₂-C₆, lower alkoxy of C₁-C₆, halogenated (F, Cl, Br, I) lower alkoxy of C₁-C₆, CO₂H, CO₂R', CONH₂, CONHR', CONR'₂, CH=CHCO₂H, or CH=CHCO₂R',

wherein R' is an optionally substituted alkyl, which includes, but is not limited to, an optionally substituted C₁₋₂₀ alkyl, an optionally substituted C₁₋₁₀ alkyl, an optionally substituted lower alkyl; an optionally substituted cycloalkyl; an optionally substituted alkenyl of C₂-C₆, an optionally substituted lower alkenyl of C₂-C₆, or optionally substituted acyl, which includes but is not limited to C(O) alkyl, C(O)(C₁₋₂₀ alkyl), C(O)(C₁₋₁₀ alkyl), or C(O)(lower alkyl) or alternatively, in the instance of NR'₂, each R' comprise at least one C atom that are joined to form a heterocycle comprising at least two carbon atoms; and

R¹² is H, halogen (including F, Cl, Br, I), OH, OR', SH, SR', NH₂, NHR', NR'₂, NO₂ lower alkyl of C₁-C₆, halogenated (F, Cl, Br, I) lower alkyl of C₁-C₆, lower alkenyl of C₂-C₆, halogenated (F, Cl, Br, I) lower alkenyl of C₂-C₆, lower alkynyl of C₂-C₆, halogenated (F, Cl, Br, I) lower alkynyl of C₂-C₆, lower alkoxy of C₁-C₆, halogenated (F, Cl, Br, I) lower alkoxy of C₁-C₆, CO₂H, CO₂R', CONH₂, CONHR', CONR'₂, CH=CHCO₂H, or CH=CHCO₂R'; with the proviso that when base is represented by the structure c with R¹¹ being hydrogen, R¹² is not a: (i) —C=C—H, (ii) —C=CH₂, or (iii) —NO₂.

DEFINITIONS

The phrase “a” or “an” entity as used herein refers to one or more of that entity; for example, a compound refers to one or more compounds or at least one compound. As such, the terms “a” (or “an”), “one or more”, and “at least one” can be used interchangeably herein.

The phrase “as defined herein above” refers to the first definition provided in the Summary of the Invention.

The terms “optional” or “optionally” as used herein means that a subsequently described event or circumstance may but need not occur, and that the description includes instances where the event or circumstance occurs and instances in which it does not. For example, “optional bond” means that the bond may or may not be present, and that the description includes single, double, or triple bonds.

The term “independently” is used herein to indicate that a variable is applied in any one instance without regard to the presence or absence of a variable having that same or a different definition within the same compound. Thus, in a compound in which R appears twice and is defined as “independently carbon or nitrogen”, both R's can be carbon, both R's can be nitrogen, or one R' can be carbon and the other nitrogen.

8

dently carbon or nitrogen”, both R's can be carbon, both R's can be nitrogen, or one R' can be carbon and the other nitrogen.

The term “alkenyl” refers to an unsubstituted hydrocarbon chain radical having from 2 to 10 carbon atoms having one or two olefinic double bonds, preferably one olefinic double bond. The term “C_{2-N} alkenyl” refers to an alkenyl comprising 2 to N carbon atoms, where N is an integer having the following values: 3, 4, 5, 6, 7, 8, 9, or 10. The term “C₂₋₁₀ alkenyl” refers to an alkenyl comprising 2 to 10 carbon atoms. The term “C₂₋₄ alkenyl” refers to an alkenyl comprising 2 to 4 carbon atoms. Examples include, but are not limited to, vinyl, 1-propenyl, 2-propenyl(allyl) or 2-butenyl(crotyl).

The term “halogenated alkenyl” refers to an alkenyl comprising at least one of F, Cl, Br, and I.

The term “alkyl” refers to an unbranched or branched chain, saturated, monovalent hydrocarbon residue containing 1 to 30 carbon atoms. The term “C_{1-M} alkyl” refers to an alkyl comprising 1 to M carbon atoms, where M is an integer having the following values: 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, or 30. The term “C₁₋₄ alkyl” refers to an alkyl containing 1 to 4 carbon atoms. The term “lower alkyl” denotes a straight or branched chain hydrocarbon residue comprising 1 to 6 carbon atoms. “C₁₋₂₀ alkyl” as used herein refers to an alkyl comprising 1 to 20 carbon atoms. “C₁₋₁₀ alkyl” as used herein refers to an alkyl comprising 1 to 10 carbons. Examples of alkyl groups include, but are not limited to, lower alkyl groups include methyl, ethyl, propyl, i-propyl, n-butyl, i-butyl, t-butyl or pentyl, isopentyl, neopentyl, hexyl, heptyl, and octyl. The term (ar)alkyl or (heteroaryl)alkyl indicate the alkyl group is optionally substituted by an aryl or a heteroaryl group respectively.

The term “cycloalkyl” refers to an unsubstituted or substituted carbocycle, in which the carbocycle contains 3 to 10 carbon atoms; preferably 3 to 8 carbon atoms; more preferably 3 to 6 carbon atoms (i.e., lower cycloalkyls). Examples of cycloalkyl groups include, but are not limited to, cyclopropyl, 2-methyl-cyclopropyl, cyclobutyl, cyclopentyl, and cyclohexyl.

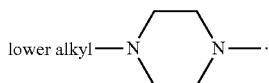
The term “cycloalkyl alkyl” refers to an additionally unsubstituted or substituted alkyl substituted by a lower cycloalkyl. Examples of cycloalkyl alkyls include, but are not limited to, any one of methyl, ethyl, propyl, i-propyl, n-butyl, i-butyl, t-butyl or pentyl, isopentyl, neopentyl, hexyl, heptyl, and octyl that is substituted with cyclopropyl, 2-methyl-cyclopropyl, cyclobutyl, cyclopentyl, and cyclohexyl.

The term “cycloheteroalkyl” refers to an unsubstituted or substituted heterocycle, in which the heterocycle contains 2 to 9 carbon atoms; preferably 2 to 7 carbon atoms; more preferably 2 to 5 carbon atoms. Examples of cycloheteroalkyls include, but are not limited to, aziridin-2-yl, N—C₁₋₃-alkyl-aziridin-2-yl, azetidiny, N—C₁₋₃-alkyl-azetidiny, pyrrolidin-m'-yl, N—C₁₋₃-alkyl-pyrrolidin-m'-yl, piperidin-m'-yl, and N—C₁₋₃-alkyl-piperidin-m'-yl, where m' is 2, 3, or 4 depending on the cycloheteroalkyl. Specific examples of N—C₁₋₃-alkyl-cycloheteroalkyls include, but are not limited to, N-methyl-aziridin-2-yl, N-methyl-azetididin-3-yl, N-methyl-pyrrolidin-3-yl, N-methyl-pyrrolidin-4-yl, N-methyl-piperidin-2-yl, N-methyl-piperidin-3-yl, and N-methyl-piperidin-4-yl. In the instance of R⁴, the point of attachment between the cycloheteroalkyl ring carbon and the oxygen occurs at any one of m'

The term “heterocycle” refers to an unsubstituted or substituted heterocycle containing carbon, hydrogen, and at least one of N, O, and S, where the C and N can be trivalent or tetravalent, i.e., sp²- or sp³-hybridized. Examples of hetero-

9

cycles include, but are not limited to, aziridine, azetidine, pyrrolidine, piperidine, imidazole, oxazole, piperazine, etc. In the instance of piperazine, as related to R¹⁰ for NR₂, the corresponding opposite nitrogen atom of the piperazinyl is substituted by a lower alkyl represented by the following structure:



Preferably, the opposite nitrogen of the piperazinyl is substituted by a methyl group.

The term "halogenated alkyl" (or "haloalkyl") refers to an unbranched or branched chain alkyl comprising at least one of F, Cl, Br, and I. The term "C₁₋₄ haloalkyl" refers to an alkyl comprising 1 to M carbon atoms that comprises at least one of F, Cl, Br, and I, where M is an integer having the following values: 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, or 30. "C₁₋₃ haloalkyl" refers to a haloalkyl comprising 1 to 3 carbons and at least one of F, Cl, Br, and I. The term "halogenated lower alkyl" (or "lower haloalkyl") refers to a haloalkyl comprising 1 to 6 carbon atoms and at least one of F, Cl, Br, and I. Examples include, but are not limited to, fluoromethyl, chloromethyl, bromomethyl, iodomethyl, difluoromethyl, dichloromethyl, dibromomethyl, diiodomethyl, trifluoromethyl, trichloromethyl, tribromomethyl, triiodomethyl, 1-fluoroethyl, 1-chloroethyl, 1-bromoethyl, 1-iodoethyl, 2-fluoroethyl, 2-chloroethyl, 2-bromoethyl, 2-iodoethyl, 2,2-difluoroethyl, 2,2-dichloroethyl, 2,2-dibromomethyl, 2,2-diiodomethyl, 3-fluoropropyl, 3-chloropropyl, 3-bromopropyl, 2,2,2-trifluoroethyl or 1,1,2,2,2-pentafluoroethyl.

The term "alkynyl" refers to an unbranched or branched hydrocarbon chain radical having from 2 to 10 carbon atoms, preferably 2 to 5 carbon atoms, and having one triple bond. The term "C_{2-N} alkynyl" refers to an alkynyl comprising 2 to N carbon atoms, where N is an integer having the following values: 3, 4, 5, 6, 7, 8, 9, or 10. The term "C₂₋₄ alkynyl" refers to an alkynyl comprising 2 to 4 carbon atoms. The term "C₂₋₁₀ alkynyl" refers to an alkynyl comprising 2 to 10 carbons. Examples include, but are limited to, ethynyl, 1-propynyl, 2-propynyl, 1-butynyl, 2-butynyl or 3-butynyl.

The term "halogenated alkynyl" refers to an unbranched or branched hydrocarbon chain radical having from 2 to 10 carbon atoms, preferably 2 to 5 carbon atoms, and having one triple bond and at least one of F, Cl, Br, and I.

The term "cycloalkyl" refers to a saturated carbocyclic ring comprising 3 to 8 carbon atoms, i.e. cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, cycloheptyl or cyclooctyl. The term "C₃₋₄ cycloalkyl" as used herein refers to a cycloalkyl comprising 3 to 7 carbons in the carbocyclic ring.

The term "alkoxy" refers to an —O-alkyl group or an —O-cycloalkyl group, wherein alkyl and cycloalkyl are as defined above. Examples of —O-alkyl groups include, but are not limited to, methoxy, ethoxy, n-propyloxy, i-propyloxy, n-butyloxy, i-butyloxy, t-butyloxy. "Lower alkoxy" as used herein denotes an alkoxy group with a "lower alkyl" group as previously defined. "C₁₋₁₀ alkoxy" refers to an —O-alkyl wherein alkyl is C₁₋₁₀. Examples of —O-cycloalkyl groups include, but are not limited to, —O-c-propyl, —O-c-butyl, —O-c-pentyl, and —O-c-hexyl.

The term "halogenated alkoxy" refers to an —O-alkyl group in which the alkyl group comprises at least one of F, Cl, Br, and I.

10

The term "halogenated lower alkoxy" refers to an —O- (lower alkyl) group in which the lower alkyl group comprises at least one of F, Cl, Br, and I.

The term "amino acid" includes naturally occurring and synthetic α , β γ or δ amino acids, and includes but is not limited to, amino acids found in proteins, i.e. glycine, alanine, valine, leucine, isoleucine, methionine, phenylalanine, tryptophan, proline, serine, threonine, cysteine, tyrosine, asparagine, glutamine, aspartate, glutamate, lysine, arginine and histidine. In a preferred embodiment, the amino acid is in the L-configuration. Alternatively, the amino acid can be a derivative of alanyl, valinyl, leucinyl, isoleucinyl, prolinyl, phenylalaninyl, tryptophanyl, methioninyl, glycinyl, serinyl, threoninyl, cysteinyl, tyrosinyl, asparaginyl, glutaminyl, aspartoyl, glutaroyl, lysinyl, argininyl, histidinyl, β -alanyl, β -valinyl, β -leucinyl, β -isoleucinyl, β -prolinyl, β -phenylalaninyl, β -tryptophanyl, β -methioninyl, β -glycinyl, β -serinyl, β -threoninyl, β -cysteinyl, β -tyrosinyl, β -asparaginyl, β -glutaminyl, β -aspartoyl, β -glutaroyl, β -lysinyl, β -argininyl or β -histidinyl. When the term amino acid is used, it is considered to be a specific and independent disclosure of each of the esters of α , β γ or δ glycine, alanine, valine, leucine, isoleucine, methionine, phenylalanine, tryptophan, proline, serine, threonine, cysteine, tyrosine, asparagine, glutamine, aspartate, glutamate, lysine, arginine and histidine in the D and L-configurations.

The term "aminoacyl" includes N,N-unsubstituted, N,N-monosubstituted, and N,N-disubstituted derivatives of naturally occurring and synthetic α , β γ or δ amino acyls, where the amino acyls are derived from amino acids. The amino-nitrogen can be substituted or unsubstituted. When the amino-nitrogen is substituted, the nitrogen is either mono- or di-substituted, where the substituent bound to the amino-nitrogen is a lower alkyl or an alkaryl. In the instance of its use for Y, the expression "O(aminoacyl)" is used. It is understood that the C3' carbon of the ribose is bound to the oxygen "O", which is then bound to the carbonyl carbon of the aminoacyl.

The terms "alkylamino" or "arylamino" refer to an amino group that has one or two alkyl or aryl substituents, respectively.

The term "protected," as used herein and unless otherwise defined, refers to a group that is added to an oxygen, nitrogen, or phosphorus atom to prevent its further reaction or for other purposes. A wide variety of oxygen and nitrogen protecting groups are known to those skilled in the art of organic synthesis. Non-limiting examples include: C(O)-alkyl, C(O)Ph, C(O)aryl, CH₃, CH₂-alkyl, CH₂-alkenyl, CH₂Ph, CH₂-aryl, CH₂O-alkyl, CH₂O-aryl, SO₂-alkyl, SO₂-aryl, tert-butyl dimethylsilyl, tert-butyl diphenylsilyl, and 1,3-(1,1,3,3-tetraisopropyl)disiloxanylidene).

The term "aryl," as used herein, and unless otherwise specified, refers to substituted or unsubstituted phenyl (Ph), biphenyl, or naphthyl, preferably the term aryl refers to substituted or unsubstituted phenyl. The aryl group can be substituted with one or more moieties selected from among hydroxyl, F, Cl, Br, I, amino, alkylamino, arylamino, alkoxy, aryloxy, nitro, cyano, sulfonic acid, sulfate, phosphonic acid, phosphate, and phosphonate, either unprotected, or protected as necessary, as known to those skilled in the art, for example, as taught in T. W. Greene and P. G. M. Wuts, "Protective Groups in Organic Synthesis," 3rd ed., John Wiley & Sons, 1999.

The terms "alkaryl" or "alkylaryl" refer to an alkyl group with an aryl substituent, such as benzyl. The terms "aralkyl" or "arylalkyl" refer to an aryl group with an alkyl substituent.

The term "di(lower alkyl)amino-lower alkyl" refers to a lower alkyl substituted by an amino group that is itself substituted by two lower alkyl groups. Examples include, but are

11

not limited to, $(\text{CH}_3)_2\text{NCH}_2$, $(\text{CH}_3)_2\text{NCH}_2\text{CH}_2$, $(\text{CH}_3)_2\text{NCH}_2\text{CH}_2\text{CH}_2$, etc. The examples above show lower alkyls substituted at the terminus carbon atom with an N,N-dimethyl-amino substituent. These are intended as examples only and are not intended to limit the meaning of the term “di(lower alkyl)amino-lower alkyl” so as to require the same. It is contemplated that the lower alkyl chain can be substituted with an N,N-di(lower alkyl)-amino at any point along the chain, e.g., $\text{CH}_3\text{CH}(\text{N}(\text{lower alkyl})_2)\text{CH}_2\text{CH}_2$.

The term “halo,” as used herein, includes chloro, bromo, iodo and fluoro.

The term “acyl” refers to a substituent containing a carbonyl moiety and a non-carbonyl moiety. The carbonyl moiety contains a double-bond between the carbonyl carbon and a heteroatom, where the heteroatom is selected from among O, N and S. When the heteroatom is N, the N is substituted by a lower alkyl. The non-carbonyl moiety is selected from straight, branched, and cyclic alkyl, which includes, but is not limited to, a straight, branched, or cyclic C_{1-20} alkyl, C_{1-10} alkyl, or lower alkyl; alkoxyalkyl, including methoxymethyl; aralkyl, including benzyl; aryloxyalkyl, such as phenoxymethyl; or aryl, including phenyl optionally substituted with halogen (F, Cl, Br, I), hydroxyl, C_1 to C_4 alkyl, or C_1 to C_4 alkoxy, sulfonate esters, such as alkyl or aralkyl sulphonyl, including methanesulfonyl, the mono, di or triphosphate ester, trityl or monomethoxytrityl, substituted benzyl, tri-alkylsilyl (e.g. dimethyl-t-butylsilyl) or diphenylmethylsilyl. When at least one aryl group is present in the non-carbonyl moiety, it is preferred that the aryl group comprises a phenyl group.

The term “lower acyl” refers to an acyl group in which the non-carbonyl moiety is lower alkyl.

The term “purine” or “pyrimidine” base includes, but is not limited to, adenine, N^6 -alkylpurines, N^6 -acylpurines (wherein acyl is $\text{C}(\text{O})(\text{alkyl}, \text{aryl}, \text{alkylaryl}, \text{or arylalkyl})$), N^6 -benzylpurine, N^6 -halopurine, N^6 -vinylpurine, N^6 -acetylenic purine, N^6 -acyl purine, N^6 -hydroxyalkyl purine, N^6 -allylaminopurine, N^6 -thioalkyl purine, N^2 -alkylpurines, N^2 -alkyl-6-thiopurines, thymine, cytosine, 5-fluorocytosine, 5-methylcytosine, 6-azapyrimidine, including 6-azacytosine, 2- and/or 4-mercaptopyrimidine, uracil, 5-halouracil, including 5-fluorouracil, C^5 -alkylpyrimidines, C^5 -benzylpyrimidines, C^5 -halopyrimidines, C^5 -vinylpyrimidine, C^5 -acetylenic pyrimidine, C^5 -acyl pyrimidine, C^5 -hydroxyalkyl purine, C^5 -amidopyrimidine, C^5 -cyanopyrimidine, C^5 -iodopyrimidine, C^6 -iodo-pyrimidine, C^5 -Br-vinyl pyrimidine, C^6 -Br-vinyl pyrimidine, C^5 -nitropyrimidine, C^5 -amino-pyrimidine, N^2 -alkylpurines, N^2 -alkyl-6-thiopurines, 5-azacytidinyl, 5-azauracilyl, triazolopyridinyl, imidazolopyridinyl, pyrrolopyrimidinyl, and pyrazolopyrimidinyl. Purine bases include, but are not limited to, guanine, adenine, hypoxanthine, 2,6-diaminopurine, and 6-chloropurine. Functional oxygen and nitrogen groups on the base can be protected as necessary or desired. Suitable protecting groups are well known to those skilled in the art, and include trimethylsilyl, dimethylhexylsilyl, t-butyl dimethylsilyl, and t-butyl diphenylsilyl, trityl, alkyl groups, and acyl groups such as acetyl and propionyl, methanesulfonyl, and p-toluenesulfonyl.

The term “tautomerism” and “tautomers” have their accepted plain meanings.

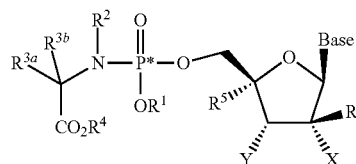
The term “P” means that the phosphorous atom is chiral and that it has a corresponding Cahn-Ingold-Prelog designation of “R” or “S” which have their accepted plain meanings. It is contemplated that compounds of the formula I are racemic because the chirality at phosphorous. Applicants contemplate use of the racemate and/or the resolved enantiomers. In

12

some instances, an asterisk does not appear next to the phosphoroamidate phosphorous atom. In these instances, it is understood that the phosphorous atom is chiral and that one of ordinary skill understands this to be so unless the substituents bound to the phosphorous exclude the possibility of chirality at phosphorous, such as in $\text{P}(\text{O})\text{Cl}_3$.

DETAILED DESCRIPTION OF THE INVENTION

An aspect of the invention is directed to a compound, its salts, hydrates, solvates, crystalline forms, and the like represented by formula I:

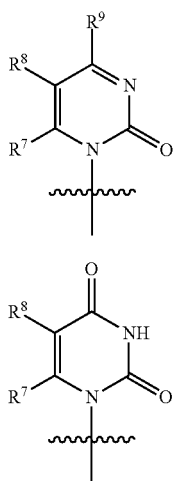


wherein

- (a) R^1 is hydrogen, n-alkyl; branched alkyl; cycloalkyl; or aryl, which includes, but is not limited to, phenyl or naphthyl, where phenyl or naphthyl are optionally substituted with at least one of C_{1-6} alkyl, C_{2-6} alkenyl, C_{2-6} alkynyl, C_{1-6} alkoxy, F, Cl, Br, I, nitro, cyano, C_{1-6} haloalkyl, $-\text{N}(\text{R}^1)_2$, C_{1-6} acylamino, $-\text{NHSO}_2\text{C}_{1-6}$ alkyl, $-\text{SO}_2\text{N}(\text{R}^1)_2$, COR^1 , and $-\text{SO}_2\text{C}_{1-6}$ alkyl; (R^1 is independently hydrogen or alkyl, which includes, but is not limited to, C_{1-20} alkyl, C_{1-10} alkyl, or C_{1-6} alkyl, R^1 is $-\text{OR}'$ or $-\text{N}(\text{R}^1)_2$);
- (b) R^2 is hydrogen, C_{1-10} alkyl, R^{3a} or R^{3b} and R^2 together are $(\text{CH}_2)_n$, so as to form a cyclic ring that includes the adjoining N and C atoms, $\text{C}(\text{O})\text{CR}^{3a}\text{R}^{3b}\text{NHR}^1$, where n is 2 to 4 and R^1 , R^{3a} , and R^{3b} ;
- (c) R^{3a} and R^{3b} are (i) independently selected from hydrogen, C_{1-10} alkyl, cycloalkyl, $-(\text{CH}_2)_c(\text{NR}^3)_2$, C_{1-6} hydroxyalkyl, $-\text{CH}_2\text{SH}$, $-(\text{CH}_2)_2\text{S}(\text{O})_d\text{Me}$, $-(\text{CH}_2)_3\text{NHC}(\text{=NH})\text{NH}_2$, (1H-indol-3-yl)methyl, (1H-imidazol-4-yl)methyl, $-(\text{CH}_2)_e\text{COR}^{3'}$, aryl and aryl C_{1-3} alkyl, said aryl groups optionally substituted with a group selected from hydroxyl, C_{1-10} alkyl, C_{1-6} alkoxy, halogen, nitro and cyano; (ii) R^{3a} and R^{3b} both are C_{1-6} alkyl; (iii) R^{3a} and R^{3b} together are $(\text{CH}_2)_f$ so as to form a spiro ring; (iv) R^{3a} is hydrogen and R^{3b} and R^2 together are $(\text{CH}_2)_n$, so as to form a cyclic ring that includes the adjoining N and C atoms (v) R^{3b} is hydrogen and R^{3a} and R^2 together are $(\text{CH}_2)_n$, so as to form a cyclic ring that includes the adjoining N and C atoms, where c is 1 to 6, d is 0 to 2, e is 0 to 3, f is 2 to 5, n is 2 to 4, and where R^3 is independently hydrogen or C_{1-6} alkyl and $\text{R}^{3'}$ is $-\text{OR}'$ or $-\text{N}(\text{R}^3)_2$; (vi) R^{3a} is H and R^{3b} is H, CH_3 , CH_2CH_3 , $\text{CH}(\text{CH}_3)_2$, $\text{CH}_2\text{CH}(\text{CH}_3)_2$, $\text{CH}(\text{CH}_3)\text{CH}_2\text{CH}_3$, CH_2Ph , CH_2 -indol-3-yl, $-\text{CH}_2\text{CH}_2\text{SCH}_3$, $\text{CH}_2\text{CO}_2\text{H}$, $\text{CH}_2\text{C}(\text{O})\text{NH}_2$, $\text{CH}_2\text{CH}_2\text{COOH}$, $\text{CH}_2\text{CH}_2\text{C}(\text{O})\text{NH}_2$, $\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{NH}_2$, $-\text{CH}_2\text{CH}_2\text{CH}_2\text{NHC}(\text{NH})\text{NH}_2$, CH_2 -imidazol-4-yl, CH_2OH , $\text{CH}(\text{OH})\text{CH}_3$, $\text{CH}_2((4'\text{-OH})\text{-Ph})$, CH_2SH , or lower cycloalkyl; or (viii) R^{3a} is CH_3 , $-\text{CH}_2\text{CH}_3$, $\text{CH}(\text{CH}_3)_2$, $\text{CH}_2\text{CH}(\text{CH}_3)_2$, $\text{CH}(\text{CH}_3)\text{CH}_2\text{CH}_3$, CH_2Ph , CH_2 -indol-3-yl, $-\text{CH}_2\text{CH}_2\text{SCH}_3$, $\text{CH}_2\text{CO}_2\text{H}$, $\text{CH}_2\text{C}(\text{O})\text{NH}_2$, $\text{CH}_2\text{CH}_2\text{COOH}$, $\text{CH}_2\text{CH}_2\text{C}(\text{O})\text{NH}_2$, $\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{NH}_2$, $-\text{CH}_2\text{CH}_2\text{CH}_2\text{NHC}(\text{NH})\text{NH}_2$, CH_2 -imidazol-4-yl, CH_2OH , $\text{CH}(\text{OH})\text{CH}_3$, $\text{CH}_2((4'\text{-OH})\text{-Ph})$, CH_2SH , or lower cycloalkyl and R^{3b}

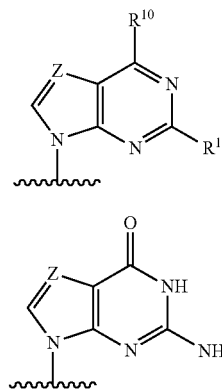
13

- is H, where R^{3'} is independently hydrogen or alkyl, which includes, but is not limited to, C₁₋₂₀ alkyl, C₁₋₁₀ alkyl, or C₁₋₆ alkyl, R^{3''} is —OR' or —N(R^{3'})₂;
- (d) R⁴ is hydrogen, C₁₋₁₀ alkyl, C₁₋₁₀ alkyl optionally substituted with a lower alkyl, alkoxy, di(lower alkyl)-amino, or halogen, C₁₋₁₀ haloalkyl, C₃₋₁₀ cycloalkyl, cycloalkyl alkyl, cycloheteroalkyl, aminoacyl, aryl, such as phenyl, heteroaryl, such as, pyridinyl, substituted aryl, or substituted heteroaryl;
- (e) R⁵ is H, a lower alkyl, CN, vinyl, O-(lower alkyl), hydroxyl lower alkyl, i.e., —(CH₂)_pOH, where p is 1-6, including hydroxylmethyl (CH₂OH), CH₂F, N₃, CH₂CN, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, alkyne (optionally substituted), or halogen, including F, Cl, Br, or I, with the provisos that when X is OH, base is cytosine and R⁶ is H, R⁵ cannot be N₃ and when X is OH, R⁶ is CH₃ or CH₂F and B is a purine base, R⁵ cannot be H;
- (f) R⁶ is H, CH₃, CH₂F, CHF₂, CF₃, F, or CN;
- (g) X is H, OH, F, OMe, halogen, NH₂, or N₃;
- (h) Y is OH, H, C₁₋₄ alkyl, C₂₋₄ alkenyl, C₂₋₄ alkynyl, vinyl, N₃, CN, Cl, Br, F, I, NO₂, OC(O)O(C₁₋₄ alkyl), OC(O)O(C₁₋₄ alkyl), OC(O)O(C₂₋₄ alkynyl), OC(O)O(C₂₋₄ alkenyl), OC₁₋₁₀ haloalkyl, O(aminoacyl), O(C₁₋₁₀ acyl), O(C₁₋₄ alkyl), O(C₂₋₄ alkenyl), S(C₁₋₄ acyl), S(C₁₋₄ alkyl), S(C₂₋₄ alkynyl), S(C₂₋₄ alkenyl), SO(C₁₋₄ acyl), SO(C₁₋₄ alkyl), SO(C₂₋₄ alkynyl), SO(C₂₋₄ alkenyl), SO₂(C₁₋₄ acyl), SO₂(C₁₋₄ alkyl), SO₂(C₂₋₄ alkynyl), SO₂(C₂₋₄ alkenyl), OS(O)₂(C₁₋₄ acyl), OS(O)₂(C₁₋₄ alkyl), OS(O)₂(C₂₋₄ alkynyl), OS(O)₂(C₂₋₄ alkenyl), NH₂, NH(C₁₋₄ alkyl), NH(C₂₋₄ alkenyl), NH(C₂₋₄ alkynyl), NH(C₁₋₄ acyl), N(C₁₋₄ alkyl)₂, N(C₁₋₁₈ acyl)₂, wherein alkyl, alkynyl, alkenyl and vinyl are optionally substituted by N₃, CN, one to three halogen (Cl, Br, F, I), NO₂, C(O)O(C₁₋₄ alkyl), C(O)O(C₁₋₄ alkyl), C(O)O(C₂₋₄ alkynyl), C(O)O(C₂₋₄ alkenyl), O(C₁₋₄ acyl), O(C₁₋₄ alkyl), O(C₂₋₄ alkenyl), S(C₁₋₄ acyl), S(C₁₋₄ alkyl), S(C₂₋₄ alkynyl), S(C₂₋₄ alkenyl), SO(C₁₋₄ acyl), SO(C₁₋₄ alkyl), SO(C₂₋₄ alkynyl), SO(C₂₋₄ alkenyl), SO₂(C₁₋₄ acyl), SO₂(C₁₋₄ alkyl), SO₂(C₂₋₄ alkynyl), SO₂(C₂₋₄ alkenyl), OS(O)₂(C₁₋₄ acyl), OS(O)₂(C₁₋₄ alkyl), OS(O)₂(C₂₋₄ alkynyl), NH₂, NH(C₁₋₄ alkyl), NH(C₂₋₄ alkenyl), NH(C₂₋₄ alkynyl), NH(C₁₋₄ acyl), N(C₁₋₄ alkyl)₂, N(C₁₋₄ acyl)₂;
- the base is a naturally occurring or modified purine or pyrimidine base represented by the following structures:



14

-continued



wherein

Z is N or CR¹²;
 R⁷, R⁸, R⁹, R¹⁰, and R¹¹ are independently H, F, Cl, Br, I, OH, OR', SH, SR', NH₂, NHR', NR'₂, lower alkyl of C₁₋₆, halogenated (F, Cl, Br, I) lower alkyl of C₁₋₆, lower alkenyl of C₂₋₆, halogenated (F, Cl, Br, I) lower alkenyl of C₂₋₆, lower alkynyl of C₂₋₆ such as C≡CH, halogenated (F, Cl, Br, I) lower alkynyl of C₂₋₆, lower alkoxy of C₁₋₆, halogenated (F, Cl, Br, I) lower alkoxy of C₁₋₆, CO₂H, CO₂R', CONH₂, CONHR', CONR'₂, CH=CHCO₂H, or CH=CHCO₂R',

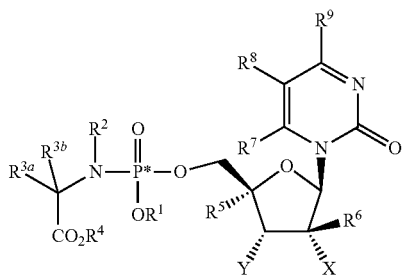
wherein R' is an optionally substituted alkyl, which includes, but is not limited to, an optionally substituted C₁₋₂₀ alkyl, an optionally substituted C₁₋₁₀ alkyl, an optionally substituted lower alkyl; an optionally substituted cycloalkyl; an optionally substituted alkynyl of C₂₋₆, an optionally substituted lower alkenyl of C₂₋₆, or optionally substituted acyl, which includes but is not limited to C(O) alkyl, C(O)(C₁₋₂₀ alkyl), C(O)(C₁₋₁₀ alkyl), or C(O)(lower alkyl) or alternatively, in the instance of NR'₂, each R' comprise at least one C atom that are joined to form a heterocycle comprising at least two carbon atoms; and

R¹² is H, halogen (including F, Cl, Br, I), OH, OR', SH, SR', NH₂, NHR', NR'₂, NO₂ lower alkyl of C₁₋₆, halogenated (F, Cl, Br, I) lower alkyl of C₁₋₆, lower alkenyl of C₂₋₆, halogenated (F, Cl, Br, I) lower alkenyl of C₂₋₆, lower alkynyl of C₂₋₆, halogenated (F, Cl, Br, I) lower alkynyl of C₂₋₆, lower alkoxy of C₁₋₆, halogenated (F, Cl, Br, I) lower alkoxy of C₁₋₆, CO₂H, CO₂R', CONH₂, CONHR', CONR'₂, CH=CHCO₂H, or CH=CHCO₂R'; with the proviso that when base is represented by the structure c with R¹¹ being hydrogen, R¹² is not a: (i) —C=C—H, (ii) —C=CH₂, or (iii) —NO₂.

As can be appreciated from the structure represented by formula I above, there are myriad ways to express the several embodiments and aspects of each embodiment of the present invention. As seen below, the inventors have disclosed certain embodiments directed to the compound of formula I, each having several aspects, based on the identity of the modified purine or pyrimidine base. This is not intended to be an explicit or implicit admission that the three embodiments are independent or distinct nor should it be interpreted as such. Rather, it is intended to convey information so that the full breadth of the present invention can be understood. Furthermore, the following embodiments, and aspects thereof, are not meant to be limiting on the full breadth of the invention as recited by the structure of formula I.

15

A first embodiment of the invention is directed to a compound represented by formula I-1:



wherein

- (a) R^1 is hydrogen, n-alkyl; branched alkyl; cycloalkyl; or aryl, which includes, but is not limited to, phenyl or naphthyl, where phenyl or naphthyl are optionally substituted with at least one of C_{1-6} alkyl, C_{2-6} alkenyl, C_{2-6} alkynyl, C_{1-6} alkoxy, F, Cl, Br, I, nitro, cyano, C_{1-6} haloalkyl, $-N(R^1)_2$, C_{1-6} acylamino, $-NHSO_2C_{1-6}$ alkyl, $-SO_2N(R^1)_2$, COR^1 , and $-SO_2C_{1-6}$ alkyl; (R^1 is independently hydrogen or alkyl, which includes, but is not limited to, C_{1-20} alkyl, C_{1-10} alkyl, or C_{1-6} alkyl, R^1 is $-OR^1$ or $-N(R^1)_2$);
- (b) R^2 is hydrogen, C_{1-10} alkyl, R^{3a} or R^{3b} and R^2 together are $(CH_2)_n$ so as to form a cyclic ring that includes the adjoining N and C atoms, $C(O)CR^{3a}R^{3b}NHR^1$, where n is 2 to 4 and R^1 , R^{3a} , and R^{3b} ;
- (c) R^{3a} and R^{3b} are (i) independently selected from hydrogen, C_{1-10} alkyl, cycloalkyl, $-(CH_2)_e(NR^3)_2$, C_{1-6} hydroxyalkyl, $-CH_2SH$, $-(CH_2)_2S(O)_dMe$, $-(CH_2)_3NHC(=NH)NH_2$, (1H-indol-3-yl)methyl, (1H-imidazol-4-yl)methyl, $-(CH_2)_eCOR^3$, aryl and aryl C_{1-3} alkyl, said aryl groups optionally substituted with a group selected from hydroxyl, C_{1-10} alkyl, C_{1-6} alkoxy, halogen, nitro and cyano; (ii) R^{3a} and R^{3b} both are C_{1-6} alkyl; (iii) R^{3a} and R^{3b} together are $(CH_2)_f$ so as to form a spiro ring; (iv) R^{3a} is hydrogen and R^{3b} and R^2 together are $(CH_2)_n$ so as to form a cyclic ring that includes the adjoining N and C atoms (v) R^{3b} is hydrogen and R^{3a} and R^2 together are $(CH_2)_n$ so as to form a cyclic ring that includes the adjoining N and C atoms, where c is 1 to 6, d is 0 to 2, e is 0 to 3, f is 2 to 5, n is 2 to 4, and where R^3 is independently hydrogen or C_{1-6} alkyl and R^3 is $-OR^3$ or $-N(R^3)_2$; (vi) R^{3a} is H and R^{3b} is H, CH_3 , CH_2CH_3 , $CH(CH_3)_2$, $CH_2CH(CH_3)_2$, $CH(CH_3)CH_2CH_3$, CH_2Ph , CH_2 -indol-3-yl, $-CH_2CH_2SCH_3$, CH_2CO_2H , $CH_2C(O)NH_2$, CH_2CH_2COOH , $CH_2CH_2C(O)NH_2$, $CH_2CH_2CH_2CH_2NH_2$, $-CH_2CH_2CH_2NHC(NH)NH_2$, CH_2OH , $CH(OH)CH_3$, $CH_2((4'-OH)-Ph)$, CH_2SH , or lower cycloalkyl; or (viii) R^{3a} is CH_3 , $-CH_2CH_3$, $CH(CH_3)_2$, $CH_2CH(CH_3)_2$, $CH(CH_3)CH_2CH_3$, CH_2Ph , CH_2 -indol-3-yl, $-CH_2CH_2SCH_3$, CH_2CO_2H , $CH_2C(O)NH_2$, CH_2CH_2COOH , $CH_2CH_2C(O)NH_2$, $CH_2CH_2CH_2CH_2NH_2$, $-CH_2CH_2CH_2NHC(NH)NH_2$, CH_2OH , $CH(OH)CH_3$, $CH_2((4'-OH)-Ph)$, CH_2SH , or lower cycloalkyl and R^{3b} is H, where R^3 is independently hydrogen or alkyl, which includes, but is not limited to, C_{1-20} alkyl, C_{1-10} alkyl, or C_{1-6} alkyl, R^3 is $-OR^3$ or $-N(R^3)_2$);
- (d) R^4 is hydrogen, C_{1-10} alkyl, C_{1-10} alkyl optionally substituted with a lower alkyl, alkoxy, di(lower alkyl)-

16

amino, or halogen, C_{1-10} haloalkyl, C_{3-10} cycloalkyl, cycloalkyl alkyl, cycloheteroalkyl, aminoacyl, di(lower alkyl)-amino, aryl, such as phenyl, heteroaryl, such as, pyridinyl, substituted aryl, or substituted heteroaryl;

- (e) R^5 is H, a lower alkyl, CN, vinyl, O-(lower alkyl), hydroxyl lower alkyl, i.e., $-(CH_2)_pOH$, where p is 1-6, including hydroxylmethyl (CH_2OH), CH_2F , N_3 , CH_2CN , CH_2NH_2 , CH_2NHCH_3 , $CH_2N(CH_3)_2$, alkyne (optionally substituted), or halogen, including F, Cl, Br, or I, with the provisos that when X is OH, base is cytosine and R^6 is H, R^5 cannot be N_3 and when X is OH, R^6 is CH_3 or CH_2F and B is a purine base, R^5 cannot be H;
- (f) R^6 is H, CH_3 , CH_2F , CHF_2 , CF_3 , F, or CN;
- (g) X is H, OH, F, OMe, Cl, Br, I, NH_2 , or N_3 ;
- (h) Y is OH, H, C_{1-4} alkyl, C_{2-4} alkenyl, C_{2-4} alkynyl, vinyl, N_3 , CN, Cl, Br, F, I, NO_2 , $OC(O)O(C_{1-4}$ alkyl), $OC(O)O(C_{1-4}$ alkyl), $OC(O)O(C_{2-4}$ alkenyl), $OC(O)O(C_{2-4}$ alkynyl), $OC(O)O(C_{2-4}$ alkenyl), OC_{1-10} haloalkyl, O(aminoacyl), $O(C_{1-10}$ acyl), $O(C_{1-4}$ alkyl), $O(C_{2-4}$ S(C_{1-4} acyl), S(C_{1-4} alkyl), S(C_{2-4} alkynyl), S(C_{2-4} alkenyl), SO(C_{1-4} acyl), SO(C_{1-4} alkyl), SO(C_{2-4} alkynyl), SO(C_{2-4} alkenyl), $SO_2(C_{1-4}$ acyl), $SO_2(C_{1-4}$ alkyl), $SO_2(C_{2-4}$ alkynyl), $SO_2(C_{2-4}$ alkenyl), $OS(O)_2(C_{1-4}$ acyl), $OS(O)_2(C_{1-4}$ alkyl), $OS(O)_2(C_{2-4}$ alkenyl), NH_2 , $NH(C_{1-4}$ alkyl), $NH(C_{2-4}$ alkenyl), $NH(C_{2-4}$ alkynyl), $NH(C_{1-4}$ acyl), $N(C_{1-4}$ alkyl) $_2$, $N(C_{1-18}$ acyl) $_2$, wherein alkyl, alkynyl, alkenyl and vinyl are optionally substituted by N_3 , CN, one to three halogen (Cl, Br, F, I), NO_2 , $C(O)O(C_{1-4}$ alkyl), $C(O)O(C_{1-4}$ alkyl), $C(O)O(C_{2-4}$ alkynyl), $C(O)O(C_{2-4}$ alkenyl), $O(C_{1-4}$ acyl), $O(C_{1-4}$ alkyl), $O(C_{2-4}$ alkenyl), S(C_{1-4} acyl), S(C_{1-4} alkyl), S(C_{2-4} alkynyl), S(C_{2-4} alkenyl), SO(C_{1-4} acyl), SO(C_{1-4} alkyl), SO(C_{2-4} alkynyl), SO(C_{2-4} alkenyl), $SO_2(C_{1-4}$ acyl), $SO_2(C_{1-4}$ alkyl), $SO_2(C_{2-4}$ alkynyl), $SO_2(C_{2-4}$ alkenyl), $OS(O)_2(C_{1-4}$ acyl), $OS(O)_2(C_{2-4}$ alkenyl), NH_2 , $NH(C_{1-4}$ alkyl), $NH(C_{2-4}$ alkenyl), $NH(C_{2-4}$ alkynyl), $NH(C_{1-4}$ acyl), alkyl) $_2$, $N(C_{1-4}$ alkyl) $_2$;
- (i) R^7 , R^8 , R^9 are independently H, F, Cl, Br, I, OH, OR', SH, SR', NH_2 , NHR^1 , NR^1 , lower alkyl, halogenated (F, Cl, Br, I) lower alkyl, lower alkyl of C_2-C_6 , CO_2H , CO_2R^1 , $CONH_2$, $CONHR^1$, $CONR^1$, wherein R' is a C_{1-20} alkyl; a C_{1-20} cycloalkyl; a C_2-C_6 alkenyl, a C_2-C_6 alkynyl.

A first aspect of the first embodiment is directed to a compound represented by formula I-1 wherein

- (a) R^1 is hydrogen, n-alkyl or aryl, which includes, but is not limited to, phenyl or naphthyl, where phenyl or naphthyl are optionally substituted with at least one of C_{1-6} alkyl, C_{1-6} alkoxy, F, Cl, Br, I, nitro, cyano, C_{1-6} haloalkyl;
- (b) R^2 is hydrogen or CH_3 ;
- (c) R^{3a} and R^{3b} are independently (i) R^{3a} is hydrogen and R^{3b} and R^2 together are $(CH_2)_n$ so as to form a cyclic ring that includes the adjoining N and C atoms (v) R^{3b} is hydrogen and R^{3a} and R^2 together are $(CH_2)_n$ so as to form a cyclic ring that includes the adjoining N and C atoms, where c is 1 to 6, d is 0 to 2, e is 0 to 3, f is 3 to 5, n is 2 to 4, and where R^3 is independently hydrogen or C_{1-6} alkyl and R^3 is $-OR^3$ or $-N(R^3)_2$; (vi) R^{3a} is H and R^{3b} is H, CH_3 , $CH(CH_3)_2$, $CH_2CH(CH_3)_2$, $CH(CH_3)CH_2CH_3$, CH_2Ph , CH_2 -indol-3-yl, $-CH_2CH_2SCH_3$, CH_2CO_2H , $CH_2C(O)NH_2$, CH_2CH_2COOH , $CH_2CH_2C(O)NH_2$, $CH_2CH_2CH_2CH_2NH_2$, $-CH_2CH_2CH_2NHC(NH)NH_2$, CH_2OH , $CH(OH)CH_3$, $CH_2((4'-OH)-Ph)$, CH_2SH , or lower cycloalkyl; or (viii) R^{3a} is CH_3 , $-CH_2CH_3$, $CH(CH_3)_2$, $CH_2CH(CH_3)_2$, $CH(CH_3)CH_2CH_3$, CH_2Ph , CH_2 -indol-3-yl, $-CH_2CH_2SCH_3$, CH_2CO_2H , $CH_2C(O)NH_2$, CH_2CH_2COOH , $CH_2CH_2C(O)NH_2$, $CH_2CH_2CH_2CH_2NH_2$, $-CH_2CH_2CH_2NHC(NH)NH_2$, CH_2OH , $CH(OH)CH_3$, $CH_2((4'-OH)-Ph)$, CH_2SH , or lower cycloalkyl; or (viii) R^{3a} is

17

- CH₃, CH(CH₃)₂, CH₂CH(CH₃)₂, CH(CH₃)CH₂CH₃, CH₂Ph, CH₂-indol-3-yl, —CH₂CH₂SCH₃, CH₂CO₂H, CH₂C(O)NH₂, CH₂CH₂COOH, CH₂CH₂C(O)NH₂, CH₂CH₂CH₂CH₂NH₂, —CH₂CH₂CH₂NHC(NH)NH₂, CH₂-imidazol-4-yl, CH₂OH, CH(OH)CH₃, CH₂((4'-OH)-Ph), or CH₂SH and R^{3b} is H;
- (d) R⁴ is hydrogen, C₁₋₁₀ alkyl, C₁₋₁₀ alkyl optionally substituted with a lower alkyl, alkoxy, di(lower alkyl)-amino, or halogen, C₁₋₁₀ haloalkyl, C₃₋₁₀ cycloalkyl, cycloalkyl alkyl, cycloheteroalkyl, aminoacyl, aryl, such as phenyl, heteroaryl, such as, pyridinyl, substituted aryl, or substituted heteroaryl;
- (e) R⁵ is H, CN, CH₃, vinyl, OCH₃, OCH₂CH₃, CH₂OH, CH₂(halo), such as CH₂F, N₃, CH₂CN, CH₂N₃, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, halogen, including F, Cl, Br, or I, with the provisos that when X is OH, base is cytosine and R⁶ is H, R⁵ cannot be N₃;
- (f) R⁶ is H, CH₃, CH₂F, CHF₂, CF₃, F, or CN;
- (g) X is H, OH, F, OMe, Cl, Br, I, NH₂, or N₃;
- (h) Y is OH, H, C₁₋₄ alkyl, vinyl, N₃, CN, Cl, Br, F, I, O(C₁₋₆ acyl), O(C₁₋₄ alkyl), NH₂, NH(C₁₋₄ alkyl), NH(C₂₋₄ alkenyl), NH(C₂₋₄ alkynyl), NH(C₁₋₄ acyl), N(C₁₋₄ alkyl)₂, N(C₁₋₁₈ acyl)₂, wherein alkyl, alkynyl, alkenyl and vinyl are optionally substituted by N₃, CN, one to three halogen (Cl, Br, F, I), NO₂, OC(O)O(C₁₋₄ alkyl), OC(O)O(C₁₋₄ alkyl), OC(O)O(C₂₋₄ alkynyl), OC(O)O(C₂₋₄ alkenyl), OC₁₋₄ haloalkyl, O(aminoacyl), O(C₁₋₄ acyl), O(C₁₋₄ alkyl), O(C₂₋₄ alkenyl), S(C₁₋₄ acyl), S(C₁₋₄ alkyl), S(C₂₋₄ alkynyl), S(C₂₋₄ alkenyl), SO(C₁₋₄ acyl), SO(C₁₋₄ alkyl), SO(C₂₋₄ alkynyl), SO(C₂₋₄ alkenyl), SO₂(C₁₋₄ acyl), SO₂(C₁₋₄ alkyl), SO₂(C₂₋₄ alkynyl), SO₂(C₂₋₄ alkenyl), OS(O)₂(C₁₋₄ acyl), OS(O)₂(C₁₋₄ alkyl), OS(O)₂(C₂₋₄ alkynyl), NH₂, NH(C₁₋₄ alkyl), NH(C₂₋₄ alkenyl), NH(C₂₋₄ alkynyl), NH(C₁₋₄ acyl), N(C₁₋₄ alkyl)₂, or N(C₁₋₄ acyl)₂;
- (i) R⁷, R⁸, R⁹ are independently H, F, Cl, Br, I, OH, OR', SH, SR', NH₂, NHR', NR'₂, lower alkyl, halogenated (F, Cl, Br, I) lower alkyl, lower alkenyl of C₂-C₆, CO₂H, CO₂R', CONH₂, CONHR', CONR'₂, wherein R' is a C₁₋₂₀ alkyl; a C₁₋₂₀ cycloalkyl; a C₂-C₆ alkenyl, a C₂-C₆ alkynyl.

A second aspect of the first embodiment is directed to a compound represented by formula I-1

wherein

- (a) R¹ is hydrogen, n-alkyl or a substituted or unsubstituted phenyl, where the substituent of the substituted phenyl is at least one of a C₁₋₃ alkyl, a C₁₋₃ alkoxy, F, Cl, Br, I, nitro, cyano, and a C₁₋₃ haloalkyl;
- (b) R² is hydrogen or CH₃;
- (c) R^{3a} and R^{3b} are independently (i) R^{3a} is hydrogen and R^{3b} and R² together are (CH₂)_n, so as to form a cyclic ring that includes the adjoining N and C atoms (v) R^{3b} is hydrogen and R^{3a} and R² together are (CH₂)_n, so as to form a cyclic ring that includes the adjoining N and C atoms, where c is 1 to 6, d is 0 to 2, e is 0 to 3, f is 3 to 5, n is 2 to 4, and where R³ is independently hydrogen or C₁₋₆ alkyl and R^{3'} is —OR' or —N(R^{3'})₂; (vi) R^{3a} is H and R^{3b} is H, CH₃, CH(CH₃)₂, CH₂CH(CH₃)₂, CH(CH₃)CH₂CH₃, CH₂Ph, CH₂-indol-3-yl, —CH₂CH₂SCH₃, CH₂CO₂H, CH₂C(O)NH₂, CH₂CH₂COOH, CH₂CH₂C(O)NH₂, CH₂CH₂CH₂CH₂NH₂, —CH₂CH₂CH₂NHC(NH)NH₂, CH₂-imidazol-4-yl, CH₂OH, CH(OH)CH₃, CH₂((4'-OH)-Ph), CH₂SH, or lower cycloalkyl; or (viii) R^{3a} is CH₃, CH(CH₃)₂, CH₂CH(CH₃)₂, CH(CH₃)CH₂CH₃, CH₂Ph, CH₂-indol-3-yl, —CH₂CH₂SCH₃, CH₂CO₂H, CH₂C(O)NH₂, CH₂CH₂COOH, CH₂CH₂C(O)NH₂,

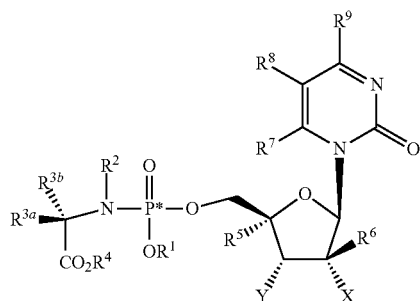
18

- CH₂CH₂CH₂CH₂NH₂, —CH₂CH₂CH₂NHC(NH)NH₂, CH₂-imidazol-4-yl, CH₂OH, CH(OH)CH₃, CH₂((4'-OH)-Ph), or CH₂SH and R^{3b} is H;
- (d) R⁴ is hydrogen, CH₃, Et, ^tPr, ⁿPr, ⁿBu, 2-butyl, ^tBu, benzyl, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, N-methyl-aziridin-2-yl, N-methyl-azetid-3-yl, N-methyl-pyrrolidin-3-yl, N-methyl-pyrrolidin-4-yl, N-methyl-piperidin-4-yl, lower haloalkyl, di(lower alkyl)amino-lower alkyl, or aminoacyl;
- (e) R⁵ is H, CN, CH₃, OCH₃, CH₂OH, CH₂(halo), such as CH₂F, N₃, CH₂CN, CH₂N₃, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, halogen, including F, Cl, Br, or I, with the provisos that when X is OH, base is cytosine and R⁶ is H, R⁵ cannot be N₃;
- (f) R⁶ is H, CH₃, CH₂F, CHF₂, CF₃, F, or CN;
- (g) X is H, OH, F, OCH₃, NH₂, or N₃;
- (h) Y is OH, H, CH₃, vinyl, N₃, CN, Cl, Br, F, I, OC(O)CH₃, OCH₃, NH₂, NHCH₃, NH(vinyl), NH(acetyl), NH(C(O)CH₃), N(CH₃)₂, N(C(O)CH₃)₂, or O(aminoacyl);
- (i) R⁷ and R⁸ are independently H, F, Cl, Br, I, OH, OCH₃, SH, SCH₃, NH₂, NHCH₃, N(CH₃)₂, CH₃, CH_{3-q}X_q, where X is F, Cl, Br, or I and q is 1 to 3, vinyl, CO₂H, CO₂CH₃, CONH₂, CONHCH₃, or CON(CH₃)₂; and
- (j) R⁹ is selected from among OH, OCH₃, SH, SCH₃, NH₂, NHCH₃, N(CH₃)₂, OC(O)(C₁₋₂₀ alkyl), which include but are not limited to OC(O)(CH₂)_sCH₃, NHC(O)(C₁₋₂₀ alkyl), which include but are not limited to NHC(O)(CH₂)_sCH₃, and N(C(O)(CH₂)_sCH₃)₂, which include but is not limited to N(C(O)(CH₂)_sCH₃)₂, where s is an integer selected from 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, and 19.
- A third aspect of the first embodiment is directed to a compound represented by formula I-1
- wherein
- (a) R¹ is hydrogen, n-alkyl or a substituted or unsubstituted phenyl, where the substituent of the substituted phenyl is at least one of a CH₃, OCH₃, F, Cl, Br, I, nitro, cyano, and a CH_{3-q}X_q, where X is F, Cl, Br, or I, and q is 1-3;
- (b) R² is hydrogen or CH₃;
- (c) R^{3a} is H and R^{3b} is H, CH₃, CH(CH₃)₂, CH₂CH(CH₃)₂, CH(CH₃)CH₂CH₃, CH₂Ph, CH₂-indol-3-yl, —CH₂CH₂SCH₃, CH₂CO₂H, CH₂C(O)NH₂, CH₂CH₂COOH, CH₂CH₂C(O)NH₂, CH₂CH₂CH₂CH₂NH₂, —CH₂CH₂CH₂NHC(NH)NH₂, CH₂-imidazol-4-yl, CH₂OH, CH(OH)CH₃, CH₂((4'-OH)-Ph), CH₂SH, or lower cycloalkyl or R^{3a} is CH₃, CH(CH₃)₂, CH₂CH(CH₃)₂, CH(CH₃)CH₂CH₃, CH₂Ph, CH₂-indol-3-yl, —CH₂CH₂SCH₃, CH₂CO₂H, CH₂C(O)NH₂, CH₂CH₂COOH, CH₂CH₂C(O)NH₂, CH₂CH₂CH₂CH₂NH₂, —CH₂CH₂CH₂NHC(NH)NH₂, CH₂-imidazol-4-yl, CH₂OH, CH(OH)CH₃, CH₂((4'-OH)-Ph), CH₂SH, or lower cycloalkyl and R^{3b} is H;
- (d) R⁴ is hydrogen, CH₃, Et, ^tPr, ⁿPr, ⁿBu, 2-butyl, ^tBu, benzyl, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, N-methyl-aziridin-2-yl, N-methyl-azetid-3-yl, N-methyl-pyrrolidin-3-yl, N-methyl-pyrrolidin-4-yl, lower haloalkyl, di(lower alkyl)amino-lower alkyl, or aminoacyl;
- (e) R⁵ is H, CN, CH₃, OCH₃, CH₂OH, CH₂(halo), such as CH₂F, N₃, CH₂CN, CH₂N₃, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, halogen, including F, Cl, Br, or I, with the provisos that when X is OH, base is cytosine and R⁶ is H, R⁵ cannot be N₃;
- (f) R⁶ is H, CH₃, CH₂F, CHF₂, CF₃, F, or CN;
- (g) X is H, OH, F, OCH₃, NH₂, or N₃;

19

- (h) Y is OH, H, CH₃, vinyl, N₃, CN, Cl, Br, F, I, OC(O)CH₃, OCH₃, NH₂, NHCH₃, NH(vinyl), NH(acetyl), NH(C(O)CH₃), N(CH₃)₂, N(C(O)CH₃)₂, or O(aminoacyl);
- (i) R⁷ and R⁸ are independently H, F, Cl, Br, I, OH, OCH₃, SH, SCH₃, NH₂, NHCH₃, N(CH₃)₂, CH₃, CH_{3-q}X_q, where X is F, Cl, Br, or I and q is 1 to 3, vinyl, CO₂H, CO₂CH₃, CONH₂, CONHCH₃, or CON(CH₃)₂, wherein R' is a C₁₋₂₀ alkyl; a C₁₋₂₀ cycloalkyl; a C_{2-C}₆ alkenyl, a C_{2-C}₆ alkynyl; and
- (j) R⁹ is selected from among OH, OCH₃, SH, SCH₃, NH₂, NHCH₃, N(CH₃)₂, OC(O)(C₁₋₂₀ alkyl), which include but are not limited to OC(O)(CH₂)_sCH₃, NHC(O)(C₁₋₂₀ alkyl), which include but are not limited to NHC(O)(CH₂)_sCH₃, and N(C(O)(CH₂)_sCH₃)₂, which include but is not limited to N(C(O)(CH₂)_sCH₃)₂, where s is an integer selected from 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, and 19.

A fourth aspect of the first embodiment is directed to a compound represented by formula I-2



wherein

- (a) R¹ is hydrogen, methyl, ethyl, n-propyl, i-propyl, or a substituted or unsubstituted phenyl, where the substituent of the substituted phenyl is at least one of a CH₃, OCH₃, F, Cl, Br, I, nitro, cyano, and a CH_{3-q}X_q, where X is F, Cl, Br, or I, and q is 1-3;
- (b) R² is hydrogen or CH₃;
- (c) R^{3a} is H and R^{3b} is H, CH₃, CH(CH₃)₂, CH₂CH(CH₃)₂, CH(CH₃)CH₂CH₃, CH₂Ph, CH₂-indol-3-yl, —CH₂CH₂SCH₃, CH₂CO₂H, CH₂C(O)NH₂, CH₂CH₂COOH, CH₂CH₂C(O)NH₂, CH₂CH₂CH₂CH₂NH₂, —CH₂CH₂CH₂NHC(NH)NH₂, CH₂-imidazol-4-yl, CH₂OH, CH(OH)CH₃, CH₂((4'-OH)-Ph), CH₂SH, or lower cycloalkyl or R^{3a} is CH₃, CH(CH₃)₂, CH₂CH(CH₃)₂, CH(CH₃)CH₂CH₃, CH₂Ph, CH₂-indol-3-yl, —CH₂CH₂SCH₃, CH₂CO₂H, CH₂C(O)NH₂, CH₂CH₂COOH, CH₂CH₂C(O)NH₂, CH₂CH₂CH₂CH₂NH₂, —CH₂CH₂CH₂NHC(NH)NH₂, CH₂-imidazol-4-yl, CH₂OH, CH(OH)CH₃, CH₂((4'-OH)-Ph), CH₂SH, or lower cycloalkyl and R^{3b} is H;
- (d) R⁴ is hydrogen, C₁₋₁₀ alkyl, C₁₋₁₀ alkyl optionally substituted with a lower alkyl, alkoxy or halogen, C₁₋₁₀ haloalkyl, C₃₋₁₀ cycloalkyl, cycloalkyl alkyl, cycloheteroalkyl, aminoacyl, di(lower alkyl)amino-lower alkyl, aryl, such as phenyl, heteroaryl, such as, pyridinyl, substituted aryl, or substituted heteroaryl;
- (e) R⁵ is H, CN, CH₃, OCH₃, CH₂OH, CH₂F, N₃, CH₂CN, CH₂N₃, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, halogen, including F, Cl, Br, or I, with the provisos that when X is OH, base is cytosine and R⁶ is H, R⁵ cannot be N₃;
- (f) R⁶ is H, CH₃, CH₂F, CHF₂, CF₃, F, or CN;
- (g) X is H, OH, F, OCH₃, Cl, Br, I, NH₂, or N₃;

20

- (h) Y is OH, H, CH₃, vinyl, N₃, CN, Cl, Br, F, I, OC(O)CH₃, OCH₃, NH₂, NHCH₃, NH(vinyl), NH(acetyl), NH(C(O)CH₃), N(CH₃)₂, N(C(O)CH₃)₂, or O(aminoacyl);
- (i) R⁷ and R⁸ are independently H, F, Cl, Br, I, OH, OCH₃, SH, SCH₃, NH₂, NHCH₃, N(CH₃)₂, CH₃, CH_{3-q}X_q, where X is F, Cl, Br, or I and q is 1 to 3, vinyl, CO₂H, CO₂CH₃, CONH₂, CONHCH₃, or CON(CH₃)₂, wherein R' is a C₁₋₂₀ alkyl; a C₁₋₂₀ cycloalkyl; a C_{2-C}₆ alkenyl, a C_{2-C}₆ alkynyl; and
- (j) R⁹ is selected from among OH, OCH₃, SH, SCH₃, NH₂, NHCH₃, N(CH₃)₂, OC(O)(C₁₋₂₀ alkyl), which include but are not limited to OC(O)(CH₂)_sCH₃, NHC(O)(C₁₋₂₀ alkyl), which include but are not limited to NHC(O)(CH₂)_sCH₃, and N(C(O)(CH₂)_sCH₃)₂, which include but is not limited to N(C(O)(CH₂)_sCH₃)₂, where s is an integer selected from 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, and 19.

A fifth aspect of the first embodiment is directed to a compound represented by formula I-2

wherein

- (a) R¹ is hydrogen, methyl, ethyl, n-propyl, i-propyl, phenyl, p-tolyl, p-bromo-phenyl, p-chloro-phenyl, p-fluorophenyl;
- (b) R² is hydrogen or CH₃;
- (c) R^{3a} is H and R^{3b} is H, CH₃, CH(CH₃)₂, CH₂CH(CH₃)₂, CH(CH₃)CH₂CH₃, CH₂Ph, CH₂-indol-3-yl, —CH₂CH₂SCH₃, CH₂CO₂H, CH₂C(O)NH₂, CH₂CH₂COOH, CH₂CH₂C(O)NH₂, CH₂CH₂CH₂CH₂NH₂, —CH₂CH₂CH₂NHC(NH)NH₂, CH₂-imidazol-4-yl, CH₂OH, CH(OH)CH₃, CH₂((4'-OH)-Ph), CH₂SH, or lower cycloalkyl;
- (d) R⁴ is hydrogen, CH₃, Et, ^tPr, ⁿPr, ⁿBu, 2-butyl, ^tBu, benzyl, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, N-methyl-aziridin-2-yl, N-methyl-azetidin-3-yl, N-methyl-pyrrolidin-3-yl, N-methyl-pyrrolidin-4-yl, lower haloalkyl, di(lower alkyl)amino-lower alkyl, or aminoacyl;
- (e) R⁵ is H, CN, CH₃, OCH₃, CH₂OH, CH₂F, halogen, including F, Cl, Br, or I;
- (f) R⁶ is H, CH₃, CH₂F, CHF₂, CF₃, F, or CN;
- (g) X is H, OH, F, OCH₃, NH₂, or N₃;
- (h) Y is OH, H, CH₃, vinyl, N₃, CN, Cl, Br, F, I, OC(O)CH₃, OCH₃, or O(aminoacyl);
- (i) R⁷ and R⁸ are independently H, F, Cl, Br, I, OH, OCH₃, SH, SCH₃, NH₂, NHCH₃, N(CH₃)₂, CH₃, CH_{3-q}X_q, where X is F, Cl, Br, or I and q is 1 to 3, vinyl, CO₂H, CO₂CH₃, CONH₂, CONHCH₃, or CON(CH₃)₂, wherein R' is a C₁₋₂₀ alkyl; a C₁₋₂₀ cycloalkyl; a C_{2-C}₆ alkenyl, a C_{2-C}₆ alkynyl; and
- (j) R⁹ is selected from among OH, OCH₃, SH, SCH₃, NH₂, NHCH₃, N(CH₃)₂, OC(O)(C₁₋₂₀ alkyl), which include but are not limited to OC(O)(CH₂)_sCH₃, NHC(O)(C₁₋₂₀ alkyl), which include but are not limited to NHC(O)(CH₂)_sCH₃, and N(C(O)(CH₂)_sCH₃)₂, which include but is not limited to N(C(O)(CH₂)_sCH₃)₂, where s is an integer selected from 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, and 19.
- A sixth aspect of the first embodiment is directed to a compound represented by formula I-2
- wherein
- (a) R¹ is hydrogen, methyl, ethyl, n-propyl, i-propyl, phenyl, p-tolyl, p-bromo-phenyl, p-chloro-phenyl, p-fluorophenyl;
- (b) R² is hydrogen or CH₃;
- (c) R^{3a} is H and R^{3b} is H, CH₃, CH(CH₃)₂, CH₂CH(CH₃)₂, CH(CH₃)CH₂CH₃, CH₂Ph, or lower cycloalkyl;

21

- (d) R⁴ is hydrogen, C₁₋₁₀ alkyl, C₁₋₁₀ alkyl optionally substituted with a lower alkyl, alkoxy or halogen, C₁₋₁₀ haloalkyl, C₃₋₁₀ cycloalkyl, cycloalkyl alkyl, cycloheteroalkyl, aminoacyl, di(lower alkyl)amino-lower alkyl, aryl, such as phenyl, heteroaryl, such as, pyridinyl, substituted aryl, or substituted heteroaryl;
- (e) R⁵ is H, OMe, CN, CH₂F, F, Cl, Br, or I;
- (f) R⁶ is H, CH₃, CH₂F, CHF₂, CF₃, or F;
- (g) X is H, OH, F, OCH₃, F, Cl, Br, I, or N₃;
- (h) Y is H, OH, CH₃, F, Cl, Br, I, or N₃, OCH₃, OC(O)CH₃, or O(aminoacyl);
- (i) R⁷ and R⁸ are independently H, F, Br, SCH₃, CH₃, CH_{3-q}X_q, where X is F, Cl, Br, or I and q is 1 to 3, vinyl, CO₂CH₃, CONH₂, CONHCH₃, or CON(CH₃)₂; and
- (j) R⁹ is selected from among OH, OCH₃, SH, SCH₃, NH₂, NHCH₃, N(CH₃)₂, OC(O)(C₁₋₂₀ alkyl), which include but are not limited to OC(O)(CH₂)_sCH₃, NHC(O)(C₁₋₂₀ alkyl), which include but are not limited to NHC(O)(CH₂)_sCH₃, and N(C(O)(CH₂)_sCH₃)₂, which include but is not limited to N(C(O)(CH₂)_sCH₃)₂, where s is an integer selected from 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, and 19.

A seventh aspect of the first embodiment is directed to a compound represented by formula I-2

wherein

- (a) R¹ is hydrogen, methyl, ethyl, n-propyl, i-propyl, phenyl, p-tolyl, p-bromo-phenyl, p-chloro-phenyl, p-fluorophenyl;
- (b) R² is hydrogen;
- (c) R^{3a} is H and R^{3b} is H, CH₃, CH(CH₃)₂, CH₂CH(CH₃)₂, CH(CH₃)CH₂CH₃, CH₂Ph, or lower cycloalkyl;
- (d) R⁴ is hydrogen, CH₃, Et, ^tPr, ⁿPr, ⁿBu, 2-butyl, ^tBu, benzyl, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, N-methyl-aziridin-2-yl, N-methyl-azetidin-3-yl, N-methyl-pyrrolidin-3-yl, N-methyl-pyrrolidin-4-yl, N-methyl-piperidin-4-yl, lower haloalkyl, or di(lower alkyl)amino-lower alkyl;
- (e) R⁵ is H;
- (f) R⁶ is H, CH₃, CH₂F, CHF₂, CF₃, or F;
- (g) X is H, OH, OCH₃, F, or N₃;
- (h) Y is OH, OCH₃, OC(O)CH₃, or O(aminoacyl);
- (i) R⁷ and R⁸ are independently H, F, Br, SCH₃, CH₃, CH_{3-q}X_q, where X is F, Cl, Br, or I and q is 1 to 3, vinyl, CO₂CH₃, CONH₂, CONHCH₃, or CON(CH₃)₂; and
- (j) R⁹ is selected from among OH, OCH₃, NH₂, NHCH₃, N(CH₃)₂, OC(O)(C₁₋₂₀ alkyl), which include but are not limited to OC(O)(CH₂)_sCH₃, NHC(O)(C₁₋₂₀ alkyl), which include but are not limited to NHC(O)(CH₂)_sCH₃, and N(C(O)(CH₂)_sCH₃)₂, which include but is not limited to N(C(O)(CH₂)_sCH₃)₂, where s is an integer selected from among 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, and 19.

An eighth aspect of the first embodiment is directed to a compound represented by formula I-2

wherein

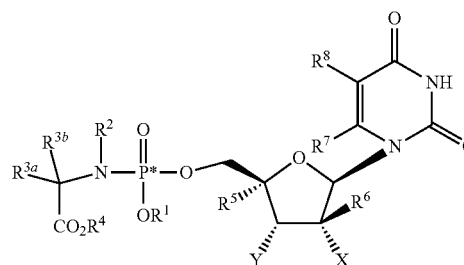
- (a) R¹ is hydrogen, methyl, phenyl, p-bromo-phenyl, p-chloro-phenyl, p-fluorophenyl;
- (b) R² is hydrogen;
- (c) R^{3a} is H and R^{3b} is H, CH₃, CH(CH₃)₂, CH₂CH(CH₃)₂, CH(CH₃)CH₂CH₃, CH₂Ph, or lower cycloalkyl;
- (d) R⁴ is hydrogen, CH₃, Et, ^tPr, ⁿPr, ⁿBu, 2-butyl, ^tBu, benzyl, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, N-methyl-aziridin-2-yl, N-methyl-azetidin-3-yl, N-methyl-pyrrolidin-3-yl, N-methyl-pyrrolidin-4-yl, N-methyl-piperidin-4-yl, lower haloalkyl, or di(lower alkyl)amino-lower alkyl;
- (e) R⁵ is H;

22

- (f) R⁶ is H, CH₃, CH₂F, CHF₂, CF₃, or F;
- (g) X is H, OH, OCH₃, F, or N₃;
- (h) Y is OH, OCH₃, OC(O)CH₃, or O(aminoacyl);
- (i) R⁷ and R⁸ are independently H, F, Br, SCH₃, CH₃, CH_{3-q}X_q, where X is F, Cl, Br, or I and q is 1 to 3, vinyl, CO₂CH₃, CONH₂, CONHCH₃, or CON(CH₃)₂;
- (j) R⁹ is selected from among OH, OCH₃, NH₂, NHCH₃, N(CH₃)₂, OC(O)(C₁₋₂₀ alkyl), which include but are not limited to OC(O)(CH₂)_sCH₃, NHC(O)(C₁₋₂₀ alkyl), which include but are not limited to NHC(O)(CH₂)_sCH₃, and N(C(O)(CH₂)_sCH₃)₂, which include but is not limited to N(C(O)(CH₂)_sCH₃)₂, where s is an integer selected from among 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, and 19.

A second embodiment of the invention is directed to a compound represented by formula I in which the base is a structure represented by formula b above, wherein R¹, R², R^{3a}, R^{3b}, R⁴, R⁵, R⁶, X, Y, R⁷, and R⁸ are defined in the Summary of the Invention section above.

A first aspect of the second embodiment is directed to a compound represented by formula I-3



I-3

wherein

- (a) R¹ is hydrogen, n-alkyl; branched alkyl; cycloalkyl; or aryl, which includes, but is not limited to, phenyl or naphthyl, where phenyl or naphthyl are optionally substituted with at least one of C₁₋₆ alkyl, C₂₋₆ alkenyl, C₂₋₆ alkynyl, C₁₋₆ alkoxy, F, Cl, Br, I, nitro, cyano, C₁₋₆ haloalkyl, —N(R¹)₂, C₁₋₆ acylamino, —NHSO₂C₁₋₆ alkyl, —SO₂N(R¹)₂, COR¹¹, and —SO₂C₁₋₆ alkyl; (R¹¹ is independently hydrogen or alkyl, which includes, but is not limited to, C₁₋₂₀ alkyl, C₁₋₁₀ alkyl, or C₁₋₆ alkyl, R¹¹ is —OR' or —N(R¹¹)₂);
- (b) R² is hydrogen or CH₃;
- (c) R^{3a} and R^{3b} are (i) independently selected from hydrogen, C₁₋₁₀ alkyl, cycloalkyl, —(CH₂)_c(NR³)₂, C₁₋₆ hydroxyalkyl, —CH₂SH, —(CH₂)₂S(O)_dMe, —(CH₂)₃NHC(=NH)NH₂, (1H-indol-3-yl)methyl, (1H-imidazol-4-yl)methyl, —(CH₂)_eCOR³¹, aryl and aryl C₁₋₃ alkyl, said aryl groups optionally substituted with a group selected from hydroxyl, C₁₋₁₀ alkyl, C₁₋₆ alkoxy, halogen, nitro and cyano; (ii) R^{3a} and R^{3b} both are C₁₋₆ alkyl; (iii) R^{3a} and R^{3b} together are (CH₂)_f so as to form a spiro ring; (iv) R^{3a} is hydrogen and R^{3b} and R² together are (CH₂)_n so as to form a cyclic ring that includes the adjoining N and C atoms (v) R^{3b} is hydrogen and R^{3a} and R² together are (CH₂)_n so as to form a cyclic ring that includes the adjoining N and C atoms, where c is 1 to 6, d is 0 to 2, e is 0 to 3, f is 2 to 5, n is 2 to 4, and where R³¹ is independently hydrogen or C₁₋₆ alkyl and R³¹ is —OR' or —N(R³¹)₂); (vi) R^{3a} is H and R^{3b} is H, CH₃, CH₂CH₃, CH(CH₃)₂, CH₂CH(CH₃)₂, CH(CH₃)CH₂CH₃, CH₂Ph, CH₂-indol-3-yl,

23

- CH₂CH₂SCH₃, CH₂CO₂H, CH₂C(O)NH₂, CH₂CH₂COOH, CH₂CH₂C(O)NH₂, CH₂CH₂CH₂CH₂NH₂, —CH₂CH₂CH₂NHC(NH)NH₂, CH₂-imidazol-4-yl, CH₂OH, CH(OH)CH₃, CH₂((4'-OH)-Ph), CH₂SH, or lower cycloalkyl; or (viii) R^{3a} is CH₃, —CH₂CH₃, CH(CH₃)₂, CH₂CH(CH₃)₂, CH(CH₃)CH₂CH₃, CH₂Ph, CH₂-indol-3-yl, —CH₂CH₂SCH₃, CH₂CO₂H, CH₂C(O)NH₂, CH₂CH₂COOH, CH₂CH₂C(O)NH₂, CH₂CH₂CH₂CH₂NH₂, —CH₂CH₂CH₂NHC(NH)NH₂, CH₂-imidazol-4-yl, CH₂OH, CH(OH)CH₃, CH₂((4'-OH)-Ph), CH₂SH, or lower cycloalkyl and R^{3b} is H, where R³ is independently hydrogen or alkyl, which includes, but is not limited to, C₁₋₂₀ alkyl, C₁₋₁₀ alkyl, or C₁₋₆ alkyl, R^{3'} is —OR' or —N(R^{3'})₂;
- (d) R⁴ is hydrogen, C₁₋₁₀ alkyl, C₁₋₁₀ alkyl optionally substituted with a lower alkyl, alkoxy or halogen, C₁₋₁₀ haloalkyl, C₃₋₁₀ cycloalkyl, cycloalkyl alkyl, cycloheteroalkyl, aminoacyl, di(lower alkyl)amino-lower alkyl, aryl, such as phenyl, heteroaryl, such as, pyridinyl, substituted aryl, or substituted heteroaryl;
- (e) R⁵ is H, a lower alkyl, CN, vinyl, O-(lower alkyl), hydroxyl lower alkyl, i.e., —(CH₂)_pOH, where p is 1-6, including hydroxylmethyl (CH₂OH), CH₂F, N₃, CH₂CN, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, alkyne (optionally substituted), or halogen, including F, Cl, Br, or I, with the provisos that when X is OH, base is cytosine and R⁶ is H, R⁵ cannot be N₃ and when X is OH, R⁶ is CH₃ or CH₂F and B is a purine base, R⁵ cannot be H;
- (f) R⁶ is H, CH₃, CH₂F, CHF₂, CF₃, F, or CN;
- (g) X is H, OH, F, OMe, Cl, Br, I, NH₂, or N₃;
- (h) Y is OH, H, C₁₋₄ alkyl, C₂₋₄ alkenyl, C₂₋₄ alkynyl, vinyl, N₃, CN, Cl, Br, F, I, NO₂, OC(O)O(C₁₋₄ alkyl), OC(O)O(C₁₋₄ alkyl), OC(O)O(C₂₋₄ alkenyl), OC(O)O(C₂₋₄ alkynyl), OC(O)O(C₂₋₄ alkenyl), OC₁₋₁₀ haloalkyl, O(aminoacyl), O(C₁₋₁₀ acyl), O(C₁₋₄ alkyl), O(C₂₋₄ alkenyl), S(C₁₋₄ acyl), S(C₁₋₄ alkyl), S(C₂₋₄ alkynyl), S(C₂₋₄ alkenyl), SO(C₁₋₄ acyl), SO(C₁₋₄ alkyl), SO(C₂₋₄ alkynyl), SO(C₂₋₄ alkenyl), SO₂(C₁₋₄ alkyl), SO₂(C₁₋₄ alkenyl), SO₂(C₂₋₄ alkynyl), SO₂(C₂₋₄ alkenyl), OS(O)₂(C₁₋₄ acyl), OS(O)₂(C₁₋₄ alkyl), OS(O)₂(C₂₋₄ alkenyl), NH₂, NH(C₁₋₄ alkyl), NH(C₂₋₄ alkenyl), NH(C₂₋₄ alkynyl), NH(C₁₋₄ acyl), N(C₁₋₄ alkyl)₂, or N(C₁₋₁₈ acyl)₂, wherein alkyl, alkynyl, alkenyl and vinyl are optionally substituted by N₃, CN, one to three halogen (Cl, Br, F, I), NO₂, C(O)O(C₁₋₄ alkyl), C(O)O(C₁₋₄ alkenyl), C(O)O(C₂₋₄ alkynyl), C(O)O(C₂₋₄ alkenyl), O(C₁₋₄ acyl), O(C₁₋₄ alkyl), O(C₂₋₄ alkenyl), S(C₁₋₄ acyl), S(C₁₋₄ alkyl), S(C₂₋₄ alkynyl), S(C₂₋₄ alkenyl), SO(C₁₋₄ acyl), SO(C₁₋₄ alkyl), SO(C₂₋₄ alkynyl), SO(C₂₋₄ alkenyl), SO₂(C₁₋₄ acyl), SO₂(C₁₋₄ alkyl), SO₂(C₂₋₄ alkynyl), SO₂(C₂₋₄ alkenyl), OS(O)₂(C₁₋₄ acyl), OS(O)₂(C₁₋₄ alkyl), OS(O)₂(C₂₋₄ alkenyl), NH₂, NH(C₁₋₄ alkyl), NH(C₂₋₄ alkenyl), NH(C₂₋₄ alkynyl), NH(C₁₋₄ acyl), N(C₁₋₄ alkyl)₂, or N(C₁₋₄ acyl)₂;
- (i) R⁷ and R⁸ are independently H, F, Cl, Br, I, OH, OR', SH, SR', NH₂, NHR', NR'₂, lower alkyl, halogenated (F, Cl, Br, I) lower alkyl, lower alkenyl of C₂-C₆, CO₂H, CO₂R', CONH₂, CONHR', CONR'₂, wherein R' is a C₁₋₂₀ alkyl; a C₁₋₂₀ cycloalkyl; a C₂-C₆ alkenyl, a C₂-C₆ alkynyl.

The second aspect of the second embodiment is directed to a compound represented by formula I-3

wherein

- (a) R¹ is hydrogen, n-alkyl or aryl, which includes, but is not limited to, phenyl or naphthyl, where phenyl or

24

- naphthyl are optionally substituted with at least one of C₁₋₆ alkyl, C₁₋₆ alkoxy, F, Cl, Br, I, nitro, cyano, C₁₋₆ haloalkyl;
- (b) R² is hydrogen or CH₃;
- (c) R^{3a} and R^{3b} are independently (i) R^{3a} is hydrogen and R^{3b} and R² together are (CH₂)_n so as to form a cyclic ring that includes the adjoining N and C atoms (v) R^{3b} is hydrogen and R^{3a} and R² together are (CH₂)_n so as to form a cyclic ring that includes the adjoining N and C atoms, where c is 1 to 6, d is 0 to 2, e is 0 to 3, f is 3 to 5, n is 2 to 4, and where R^{3a} is independently hydrogen or C₁₋₆ alkyl and R^{3''} is —OR' or —N(R^{3''})₂; (vi) R^{3a} is H and R^{3b} is H, CH₃, CH(CH₃)₂, CH(CH₃)CH₂CH₃, CH₂Ph, CH₂-indol-3-yl, —CH₂CH₂SCH₃, CH₂CO₂H, CH₂C(O)NH₂, CH₂CH₂COOH, CH₂CH₂C(O)NH₂, CH₂CH₂CH₂CH₂NH₂, —CH₂CH₂CH₂NHC(NH)NH₂, CH₂-imidazol-4-yl, CH₂OH, CH(OH)CH₃, CH₂((4'-OH)-Ph), CH₂SH, or lower cycloalkyl; or (viii) R^{3a} is CH₃, CH(CH₃)₂, CH₂CH(CH₃)₂, CH(CH₃)CH₂CH₃, CH₂Ph, CH₂-indol-3-yl, —CH₂CH₂SCH₃, CH₂CO₂H, CH₂C(O)NH₂, CH₂CH₂COOH, CH₂CH₂C(O)NH₂, CH₂CH₂CH₂CH₂NH₂, —CH₂CH₂CH₂NHC(NH)NH₂, CH₂-imidazol-4-yl, CH₂OH, CH(OH)CH₃, CH₂((4'-OH)-Ph), or CH₂SH and R^{3b} is H;
- (d) R⁴ is hydrogen, C₁₋₁₀ alkyl, C₁₋₁₀ alkyl optionally substituted with a lower alkyl, alkoxy or halogen, C₁₋₁₀ haloalkyl, C₃₋₁₀ cycloalkyl, cycloalkyl alkyl, cycloheteroalkyl, aminoacyl, di(lower alkyl)amino-lower alkyl, aryl, such as phenyl, heteroaryl, such as, pyridinyl, substituted aryl, or substituted heteroaryl;
- (e) R⁵ is H, CN, CH₃, vinyl, OCH₂CH₃, CH₂OH, CH₂(halo), such as CH₂F, N₃, CH₂CN, CH₂N₃, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, halogen, including F, Cl, Br, or I;
- (f) R⁶ is H, CH₃, CH₂F, CHF₂, CF₃, F, or CN;
- (g) X is H, OH, F, OMe, halogen, NH₂, or N₃;
- (h) Y is OH, H, C₁₋₄ alkyl, vinyl, N₃, CN, Cl, Br, F, I, O(C₁₋₆ acyl), O(C₁₋₄ alkyl), NH₂, NH(C₁₋₄ alkyl), NH(C₂₋₄ alkenyl), NH(C₂₋₄ alkynyl), NH(C₁₋₄ acyl), N(C₁₋₄ alkyl)₂, N(C₁₋₁₈ acyl)₂, wherein alkyl, alkynyl, alkenyl and vinyl are optionally substituted by N₃, CN, one to three halogen (Cl, Br, F, I), NO₂, OC(O)O(C₁₋₄ alkyl), OC(O)O(C₁₋₄ alkenyl), OC(O)O(C₂₋₄ alkynyl), OC(O)O(C₂₋₄ alkenyl), OC₁₋₁₀ haloalkyl, O(aminoacyl), O(C₁₋₄ acyl), O(C₁₋₄ alkyl), O(C₂₋₄ alkenyl), S(C₁₋₄ acyl), S(C₁₋₄ alkyl), S(C₂₋₄ alkynyl), S(C₂₋₄ alkenyl), SO(C₁₋₄ acyl), SO(C₁₋₄ alkyl), SO(C₂₋₄ alkynyl), SO(C₂₋₄ alkenyl), SO₂(C₁₋₄ acyl), SO₂(C₁₋₄ alkyl), SO₂(C₂₋₄ alkynyl), SO₂(C₂₋₄ alkenyl), OS(O)₂(C₁₋₄ acyl), OS(O)₂(C₁₋₄ alkyl), OS(O)₂(C₂₋₄ alkenyl), NH₂, NH(C₁₋₄ alkyl), NH(C₂₋₄ alkenyl), NH(C₂₋₄ alkynyl), NH(C₁₋₄ acyl), N(C₁₋₄ alkyl)₂, or N(C₁₋₄ acyl)₂;
- (i) R⁷ and R⁸ are independently H, F, Cl, Br, I, OH, OR', SH, SR', NH₂, NHR', NR'₂, lower alkyl, halogenated (F, Cl, Br, I) lower alkyl, lower alkenyl of C₂-C₆, CO₂H, CO₂R', CONH₂, CONHR', CONR'₂, wherein R' is a C₁₋₂₀ alkyl; a C₁₋₂₀ cycloalkyl; a C₂-C₆ alkenyl, a C₂-C₆ alkynyl.

The third aspect of the second embodiment is directed to a compound represented by formula I-3

wherein

- (a) R¹ is hydrogen, n-alkyl or a substituted or unsubstituted phenyl, where the substituent of the substituted phenyl is at least one of a C₁₋₃ alkyl, a C₁₋₃ alkoxy, F, Cl, Br, I, nitro, cyano, and a C₁₋₃ haloalkyl;

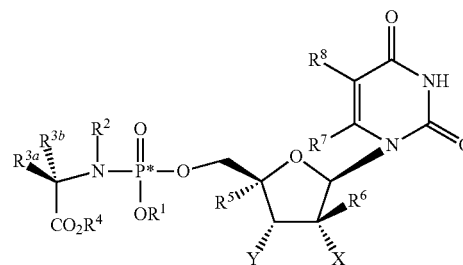
25

- (b) R² is hydrogen, CH₃, R^{3a} or R^{3b} and R² together are (CH₂)₃ so as to form a cyclic ring that includes the adjoining N and C atoms, C(O)CR^{3a}R^{3b}NHR¹, where n is 2 to 4 and R¹, R^{3a}, and R^{3b} are as defined herein;
- (c) R^{3a} and R^{3b} are independently (i) R^{3a} is hydrogen and R^{3b} and R² together are (CH₂)_n so as to form a cyclic ring that includes the adjoining N and C atoms (v) R^{3b} is hydrogen and R^{3a} and R² together are (CH₂)_n so as to form a cyclic ring that includes the adjoining N and C atoms, where c is 1 to 6, d is 0 to 2, e is 0 to 3, f is 3 to 5, n is 2 to 4, and where R³ is independently hydrogen or C₁₋₆ alkyl and R^{3'} is —OR' or —N(R^{3'})₂; (vi) R^{3a} is H and R^{3b} is H, CH₃, CH(CH₃)₂, CH₂CH(CH₃)₂, CH(CH₃)CH₂CH₃, CH₂Ph, CH₂-indol-3-yl, —CH₂CH₂SCH₃, CH₂CO₂H, CH₂C(O)NH₂, CH₂CH₂COOH, CH₂CH₂C(O)NH₂, CH₂CH₂CH₂CH₂NH₂, —CH₂CH₂CH₂NHC(NH)NH₂, CH₂-imidazol-4-yl, CH₂OH, CH(OH)CH₃, CH₂((4'-OH)-Ph), CH₂SH, or lower cycloalkyl; or (viii) R^{3a} is CH₃, CH(CH₃)₂, CH₂CH(CH₃)₂, CH(CH₃)CH₂CH₃, CH₂Ph, CH₂-indol-3-yl, —CH₂CH₂SCH₃, CH₂CO₂H, CH₂C(O)NH₂, CH₂CH₂COOH, CH₂CH₂C(O)NH₂, CH₂CH₂CH₂CH₂NH₂, —CH₂CH₂CH₂NHC(NH)NH₂, CH₂-imidazol-4-yl, CH₂OH, CH(OH)CH₃, CH₂((4'-OH)-Ph), CH₂SH, or lower cycloalkyl and R^{3b} is H;
- (d) R⁴ is hydrogen, CH₃, Et, ^tPr, ⁿPr, ⁿBu, 2-butyl, ^tBu, benzyl, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, N-methyl-aziridin-2-yl, N-methyl-azetidin-3-yl, N-methyl-pyrrolidin-3-yl, N-methyl-pyrrolidin-4-yl, N-methyl-piperidin-4-yl, lower haloalkyl, or di(lower alkyl)amino-lower alkyl;
- (e) R⁵ is H, CN, CH₃, OCH₃, CH₂OH, CH₂(halo), such as CH₂F, N₃, CH₂CN, CH₂N₃, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, halogen, including F, Cl, Br, or I;
- (f) R⁶ is H, CH₃, CH₂F, CHF₂, CF₃, F, or CN;
- (g) X is H, OH, F, OCH₃, halogen, NH₂, or N₃;
- (h) Y is OH, H, CH₃, vinyl, N₃, CN, Cl, Br, F, I, OC(O)CH₃, OCH₃, NH₂, NHCH₃, NH(vinyl), NH(acetyl), NH(C(O)CH₃), N(CH₃)₂, N(C(O)CH₃)₂;
- (i) R⁷ and R⁸ are independently H, F, Cl, Br, I, OH, OCH₃, SH, SCH₃, NH₂, NHCH₃, N(CH₃)₂, CH₃, CH_{3-q}X_q, where X is F, Cl, Br, or I and q is 1 to 3, vinyl, CO₂H, CO₂CH₃, CONH₂, CONHCH₃, or CON(CH₃)₂.
- The fourth aspect of the second embodiment is directed to a compound represented by formula I-3
- wherein
- (a) R¹ is hydrogen, n-alkyl or a substituted or unsubstituted phenyl, where the substituent of the substituted phenyl is at least one of a CH₃, OCH₃, F, Cl, Br, I, nitro, cyano, and a CH_{3-q}X_q, where X is F, Cl, Br, or I, and q is 1-3;
- (b) R² is hydrogen or CH₃;
- (c) R^{3a} is H and R^{3b} is H, CH₃, CH(CH₃)₂, CH₂CH(CH₃)₂, CH(CH₃)CH₂CH₃, CH₂Ph, CH₂-indol-3-yl, —CH₂CH₂SCH₃, CH₂CO₂H, CH₂C(O)NH₂, CH₂CH₂COOH, CH₂CH₂C(O)NH₂, CH₂CH₂CH₂CH₂NH₂, —CH₂CH₂CH₂NHC(NH)NH₂, CH₂-imidazol-4-yl, CH₂OH, CH(OH)CH₃, CH₂((4'-OH)-Ph), CH₂SH, or lower cycloalkyl or R^{3a} is CH₃, CH(CH₃)₂, CH₂CH(CH₃)₂, CH(CH₃)CH₂CH₃, CH₂Ph, CH₂-indol-3-yl, —CH₂CH₂SCH₃, CH₂CO₂H, CH₂C(O)NH₂, CH₂CH₂COOH, CH₂CH₂C(O)NH₂, CH₂CH₂CH₂CH₂NH₂, —CH₂CH₂CH₂NHC(NH)NH₂, CH₂-imidazol-4-yl, CH₂OH, CH(OH)CH₃, CH₂((4'-OH)-Ph), CH₂SH, or lower cycloalkyl and R^{3b} is H;
- (d) R⁴ is hydrogen, CH₃, Et, ^tPr, ⁿPr, ⁿBu, 2-butyl, ^tBu, benzyl, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, N-methyl-aziridin-2-yl, N-methyl-azetidin-3-yl, N-methyl-pyrrolidin-3-yl, N-methyl-pyrrolidin-4-yl, N-methyl-piperidin-4-yl, lower haloalkyl, or di(lower alkyl)amino-lower alkyl;
- (e) R⁵ is H, CN, CH₃, OCH₃, CH₂OH, CH₂F, N₃, CH₂CN, CH₂N₃, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, halogen, including F, Cl, Br, or I;
- (f) R⁶ is H, CH₃, CH₂F, CHF₂, CF₃, F, or CN;
- (g) X is H, OH, F, OCH₃, Cl, Br, I, NH₂, or N₃;
- (h) Y is OH, H, CH₃, vinyl, N₃, CN, Cl, Br, F, I, OC(O)CH₃, OCH₃, NH₂, NHCH₃, NH(vinyl), NH(acetyl), NH(C(O)CH₃), N(CH₃)₂, N(C(O)CH₃)₂;

26

- methyl-pyrrolidin-3-yl, N-methyl-pyrrolidin-4-yl, N-methyl-piperidin-4-yl, lower haloalkyl, or di(lower alkyl)amino-lower alkyl;
- (e) R⁵ is H, CN, CH₃, OCH₃, CH₂OH, CH₂(halo), such as CH₂F, N₃, CH₂CN, CH₂N₃, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, halogen, including F, Cl, Br, or I;
- (f) R⁶ is H, CH₃, CH₂F, CHF₂, CF₃, F, or CN;
- (g) X is H, OH, F, OCH₃, NH₂, or N₃;
- (h) Y is OH, H, CH₃, vinyl, N₃, CN, Cl, Br, F, I, OC(O)CH₃, OCH₃, NH₂, NHCH₃, NH(vinyl), NH(acetyl), NH(C(O)CH₃), N(CH₃)₂, N(C(O)CH₃)₂;
- (i) R⁷ and R⁸ are independently H, F, Cl, Br, I, OH, OCH₃, SH, SCH₃, NH₂, NHCH₃, N(CH₃)₂, CH₃, CH_{3-q}X_q, where X is F, Cl, Br, or I and q is 1 to 3, vinyl, CO₂H, CO₂CH₃, CONH₂, CONHCH₃, or CON(CH₃)₂, wherein R' is a C₁₋₂₀ alkyl; a C₁₋₂₀ cycloalkyl; a C₂-C₆ alkenyl, a C₂-C₆ alkynyl.

The fifth aspect of the second embodiment is directed to a compound represented by formula I-4



I-4

wherein

- (a) R¹ is hydrogen, methyl, ethyl, n-propyl, i-propyl, or a substituted or unsubstituted phenyl, where the substituent of the substituted phenyl is at least one of a CH₃, OCH₃, F, Cl, Br, I, nitro, cyano, and a CH_{3-q}X_q, where X is F, Cl, Br, or I, and q is 1-3;
- (b) R² is hydrogen or CH₃;
- (c) R^{3a} is H and R^{3b} is H, CH₃, CH(CH₃)₂, CH₂CH(CH₃)₂, CH(CH₃)CH₂CH₃, CH₂Ph, CH₂-indol-3-yl, —CH₂CH₂SCH₃, CH₂CO₂H, CH₂C(O)NH₂, CH₂CH₂COOH, CH₂CH₂C(O)NH₂, CH₂CH₂CH₂CH₂NH₂, —CH₂CH₂CH₂NHC(NH)NH₂, CH₂-imidazol-4-yl, CH₂OH, CH(OH)CH₃, CH₂((4'-OH)-Ph), CH₂SH, or lower cycloalkyl or R^{3a} is CH₃, CH(CH₃)₂, CH₂CH(CH₃)₂, CH(CH₃)CH₂CH₃, CH₂Ph, CH₂-indol-3-yl, —CH₂CH₂SCH₃, CH₂CO₂H, CH₂C(O)NH₂, CH₂CH₂COOH, CH₂CH₂C(O)NH₂, CH₂CH₂CH₂CH₂NH₂, —CH₂CH₂CH₂NHC(NH)NH₂, CH₂-imidazol-4-yl, CH₂OH, CH(OH)CH₃, CH₂((4'-OH)-Ph), CH₂SH, or lower cycloalkyl and R^{3b} is H;
- (d) R⁴ is hydrogen, CH₃, Et, ^tPr, ⁿPr, ⁿBu, 2-butyl, ^tBu, benzyl, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, N-methyl-aziridin-2-yl, N-methyl-azetidin-3-yl, N-methyl-pyrrolidin-3-yl, N-methyl-pyrrolidin-4-yl, N-methyl-piperidin-4-yl, lower haloalkyl, or di(lower alkyl)amino-lower alkyl;
- (e) R⁵ is H, CN, CH₃, OCH₃, CH₂OH, CH₂F, N₃, CH₂CN, CH₂N₃, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, halogen, including F, Cl, Br, or I;
- (f) R⁶ is H, CH₃, CH₂F, CHF₂, CF₃, F, or CN;
- (g) X is H, OH, F, OCH₃, Cl, Br, I, NH₂, or N₃;
- (h) Y is OH, H, CH₃, vinyl, N₃, CN, Cl, Br, F, I, OC(O)CH₃, OCH₃, NH₂, NHCH₃, NH(vinyl), NH(acetyl), NH(C(O)CH₃), N(CH₃)₂, N(C(O)CH₃)₂;

27

- (i) R^7 and R^8 are independently H, F, Cl, Br, I, OH, OCH_3 , SH, SCH_3 , NH_2 , $NHCH_3$, $N(CH_3)_2$, CH_3 , $CH_{3-q}X_q$, where X is F, Cl, Br, or I and q is 1 to 3, vinyl, CO_2H , CO_2CH_3 , $CONH_2$, $CONHCH_3$, or $CON(CH_3)_2$, wherein R^1 is a C_{1-20} alkyl; a C_{1-20} cycloalkyl; a C_2-C_6 alkenyl, a C_2-C_6 alkynyl,

The sixth aspect of the second embodiment is directed to a compound represented by formula I-4

wherein

- (a) R^1 is hydrogen, methyl, ethyl, n-propyl, i-propyl, phenyl, p-tolyl, p-bromo-phenyl, p-chloro-phenyl, p-fluorophenyl;
- (b) R^2 is hydrogen or CH_3 ;
- (c) R^{3a} is H and R^{3b} is H, CH_3 , $CH(CH_3)_2$, $CH_2CH(CH_3)_2$, $CH(CH_3)CH_2CH_3$, CH_2Ph , CH_2 -indol-3-yl, $-CH_2CH_2SCH_3$, CH_2CO_2H , $CH_2C(O)NH_2$, CH_2CH_2COOH , $CH_2CH_2C(O)NH_2$, $CH_2CH_2CH_2CH_2NH_2$, $-CH_2CH_2CH_2NHC(NH)NH_2$, CH_2 -imidazol-4-yl, CH_2OH , $CH(OH)CH_3$, $CH_2((4'-OH)-Ph)$, CH_2SH , or lower cycloalkyl;
- (d) R^4 is hydrogen, CH_3 , Et, iPr , nPr , nBu , 2-butyl, tBu , benzyl, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, N-methyl-aziridin-2-yl, N-methyl-azetidin-3-yl, N-methyl-pyrrolidin-3-yl, N-methyl-pyrrolidin-4-yl, N-methyl-piperidin-4-yl, lower haloalkyl, or di(lower alkyl)amino-lower alkyl;
- (e) R^5 is H, CN, CH_3 , OCH_3 , CH_2OH , CH_2F , halogen, including F, Cl, Br, or I;
- (f) R^6 is H, CH_3 , CH_2F , CHF_2 , CF_3 , F, or CN;
- (g) X is H, OH, F, OCH_3 , NH_2 , or N_3 ;
- (h) Y is OH, H, CH_3 , vinyl, NH_2 , N_3 , CN, Cl, Br, F, I, $OC(O)CH_3$, OCH_3 ;
- (i) R^7 and R^8 are independently H, F, Cl, Br, I, OH, OCH_3 , SH, SCH_3 , NH_2 , $NHCH_3$, $N(CH_3)_2$, CH_3 , $CH_{3-q}X_q$, where X is F, Cl, Br, or I and q is 1 to 3, vinyl, CO_2H , CO_2CH_3 , $CONH_2$, $CONHCH_3$, or $CON(CH_3)_2$, wherein R^1 is a C_{1-20} alkyl; a C_{1-20} cycloalkyl; a C_2-C_6 alkenyl, a C_2-C_6 alkynyl.

The seventh aspect of the second embodiment is directed to a compound represented by formula I-4

wherein

- (a) R^1 is hydrogen, methyl, ethyl, n-propyl, i-propyl, phenyl, p-tolyl, p-bromo-phenyl, p-chloro-phenyl, p-fluorophenyl;
- (b) R^2 is hydrogen or CH_3 ;
- (c) R^{3a} is H and R^{3b} is H, CH_3 , $CH(CH_3)_2$, $CH_2CH(CH_3)_2$, $CH(CH_3)CH_2CH_3$, CH_2Ph , or lower cycloalkyl;
- (d) R^4 is hydrogen, CH_3 , Et, iPr , nPr , nBu , 2-butyl, tBu , benzyl, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, N-methyl-aziridin-2-yl, N-methyl-azetidin-3-yl, N-methyl-pyrrolidin-3-yl, N-methyl-pyrrolidin-4-yl, N-methyl-piperidin-4-yl, lower haloalkyl, or di(lower alkyl)amino-lower alkyl;
- (e) R^5 is H, OMe, CN, CH_2F , F, Cl, Br, or I;
- (f) R^6 is H, CH_3 , CH_2F , CHF_2 , CF_3 , or F;
- (g) X is H, OH, F, OCH_3 , F, Cl, Br, I, NH_2 or N_3 ;
- (h) Y is H, OH, CH_3 , F, Cl, Br, I, NH_2 or N_3 , OCH_3 , or $OC(O)CH_3$;
- (i) R^7 and R^8 are independently H, F, Br, SCH_3 , CH_3 , $CH_{3-q}X_q$, where X is F, Cl, Br, or I and q is 1 to 3, vinyl, CO_2CH_3 , $CONH_2$, $CONHCH_3$, or $CON(CH_3)_2$;

The eighth aspect of the second embodiment is directed to a compound represented by formula I-4

wherein

- (a) R^1 is hydrogen, methyl, ethyl, n-propyl, i-propyl, phenyl, p-tolyl, p-bromo-phenyl, p-chloro-phenyl, p-fluorophenyl;

28

- (b) R^2 is hydrogen;
- (c) R^{3a} is H and R^{3b} is H, CH_3 , $CH(CH_3)_2$, $CH_2CH(CH_3)_2$, $CH(CH_3)CH_2CH_3$, CH_2Ph , or lower cycloalkyl;
- (d) R^4 is hydrogen, CH_3 , Et, iPr , nPr , nBu , 2-butyl, tBu , benzyl, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, N-methyl-aziridin-2-yl, N-methyl-azetidin-3-yl, N-methyl-pyrrolidin-3-yl, N-methyl-pyrrolidin-4-yl, N-methyl-piperidin-4-yl, lower haloalkyl, or di(lower alkyl)amino-lower alkyl;
- (e) R^5 is H;
- (f) R^6 is H, CH_3 , CH_2F , CHF_2 , CF_3 , or F;
- (g) X is H, OH, OCH_3 , F, NH_2 or N_3 ;
- (h) Y is OH, NH_2 , OCH_3 , or $OC(O)CH_3$;
- (i) R^7 and R^8 are independently H, F, Br, SCH_3 , CH_3 , $CH_{3-q}X_q$, where X is F, Cl, Br, or I and q is 1 to 3, vinyl, CO_2CH_3 , $CONH_2$, $CONHCH_3$, or $CON(CH_3)_2$.

The ninth aspect of the second embodiment is directed to a compound represented by formula I-4

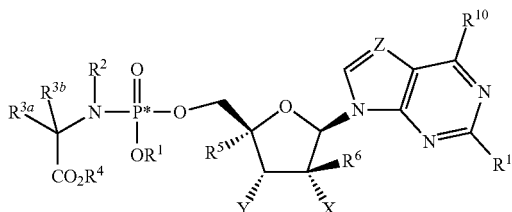
wherein

- (a) R^1 is hydrogen, methyl, phenyl, p-bromo-phenyl, p-chloro-phenyl, p-fluorophenyl;
- (b) R^2 is hydrogen;
- (c) R^{3a} is H and R^{3b} is H, CH_3 , $CH(CH_3)_2$, $CH_2CH(CH_3)_2$, $CH(CH_3)CH_2CH_3$, CH_2Ph , or lower cycloalkyl;
- (d) R^4 is hydrogen, CH_3 , Et, iPr , nPr , nBu , 2-butyl, tBu , benzyl, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, N-methyl-aziridin-2-yl, N-methyl-azetidin-3-yl, N-methyl-pyrrolidin-3-yl, N-methyl-pyrrolidin-4-yl, N-methyl-piperidin-4-yl, lower haloalkyl, or di(lower alkyl)amino-lower alkyl;
- (e) R^5 is H;
- (f) R^6 is H, CH_3 , CH_2F , CHF_2 , CF_3 , or F;
- (g) X is H, OH, OCH_3 , F, or N_3 ;
- (h) Y is OH, OCH_3 , or $OC(O)CH_3$;
- (i) R^7 and R^8 are independently H, F, Br, SCH_3 , CH_3 , $CH_{3-q}X_q$, where X is F, Cl, Br, or I and q is 1 to 3, vinyl, CO_2CH_3 , $CONH_2$, $CONHCH_3$, or $CON(CH_3)_2$.

A third embodiment of the invention is directed to a compound represented by formula I in which the base is a structure represented by formula c above, wherein R^1 , R^2 , R^{3a} , R^{3b} , R^4 , R^5 , R^6 , X, Y, Z, R^{10} , R^{11} , and R^{12} are defined in the Summary of the Invention section above; with the proviso that R^{11} is not H.

A first aspect of the third embodiment is directed to a compound represented by formula I-5

I-5



wherein

- (a) R^1 is hydrogen, n-alkyl; branched alkyl; cycloalkyl; or aryl, which includes, but is not limited to, phenyl or naphthyl, where phenyl or naphthyl are optionally substituted with at least one of C_{1-6} alkyl, C_{2-6} alkenyl, C_{2-6} alkynyl, C_{1-6} alkoxy, F, Cl, Br, I, nitro, cyano, C_{1-6} haloalkyl, $-N(R^1)_2$, C_{1-6} acylamino, $-NHSO_2C_{1-6}$ alkyl, $-SO_2N(R^1)_2$, COR^1 , and $-SO_2C_{1-6}$ alkyl; (R^1

29

- is independently hydrogen or alkyl, which includes, but is not limited to, C₁₋₂₀ alkyl, C₁₋₁₀ alkyl, or C₁₋₆ alkyl, R¹ is —OR' or —N(R¹)₂;
- (b) R² is hydrogen or CH₃;
- (c) R^{3a} and R^{3b} are (i) independently selected from hydrogen, C₁₋₁₀ alkyl, cycloalkyl, —(CH₂)_c(NR^{3'})₂, C₁₋₆ hydroxyalkyl, —CH₂SH, —(CH₂)₂S(O)_dMe, —(CH₂)₃NHC(=NH)NH₂, (1H-indol-3-yl)methyl, (1H-imidazol-4-yl)methyl, —(CH₂)_eCOR^{3''}, aryl and aryl C₁₋₃ alkyl, said aryl groups optionally substituted with a group selected from hydroxyl, C₁₋₁₀ alkyl, C₁₋₆ alkoxy, halogen, nitro and cyano; (ii) R^{3a} and R^{3b} both are C₁₋₆ alkyl; (iii) R^{3a} and R^{3b} together are (CH₂)_f so as to form a spiro ring;
- (iv) R^{3a} is hydrogen and R^{3b} and R² together are (CH₂)_g so as to form a cyclic ring that includes the adjoining N and C atoms (v) R^{3b} is hydrogen and R^{3a} and R² together are (CH₂)_h so as to form a cyclic ring that includes the adjoining N and C atoms, where c is 1 to 6, d is 0 to 2, e is 0 to 3, f is 2 to 5, g is 2 to 4, and where R^{3'} is independently hydrogen or C₁₋₆ alkyl and R^{3''} is —OR' or —N(R^{3'})₂; (vi) R^{3a} is H and R^{3b} is from H, CH₃, CH₂CH₃, CH(CH₃)₂, CH₂CH(CH₃)₂, CH(CH₃)CH₂CH₃, CH₂Ph, CH₂-indol-3-yl, —CH₂CH₂SCH₃, CH₂CO₂H, CH₂C(O)NH₂, CH₂CH₂COOH, CH₂CH₂C(O)NH₂, CH₂CH₂CH₂CH₂NH₂, —CH₂CH₂CH₂NHC(NH)NH₂, CH₂-imidazol-4-yl, CH₂OH, CH(OH)CH₃, CH₂((4'-OH)-Ph), CH₂SH, or lower cycloalkyl; or (viii) R^{3a} is CH₃, —CH₂CH₃, CH(CH₃)₂, CH₂CH(CH₃)₂, CH(CH₃)CH₂CH₃, CH₂Ph, CH₂-indol-3-yl, —CH₂CH₂SCH₃, CH₂CO₂H, CH₂C(O)NH₂, CH₂CH₂COOH, CH₂CH₂C(O)NH₂, CH₂CH₂CH₂CH₂NH₂, —CH₂CH₂CH₂NHC(NH)NH₂, CH₂-imidazol-4-yl, CH₂OH, CH(OH)CH₃, CH₂((4'-OH)-Ph), CH₂SH, or lower cycloalkyl and R^{3b} is H, where R^{3'} is independently hydrogen or alkyl, which includes, but is not limited to, C₁₋₂₀ alkyl, C₁₋₁₀ alkyl, or C₁₋₆ alkyl, R^{3''} is —OR' or —N(R^{3'})₂;
- (d) R⁴ is hydrogen, C₁₋₁₀ alkyl, C₁₋₁₀ alkyl optionally substituted with a lower alkyl, alkoxy or halogen, C₁₋₁₀ haloalkyl, C₃₋₁₀ cycloalkyl, cycloalkyl alkyl, cycloheteroalkyl, aminoacyl, di(lower alkyl)amino-lower alkyl, aryl, such as phenyl, heteroaryl, such as, pyridinyl, substituted aryl, or substituted heteroaryl;
- (e) R⁵ is H, a lower alkyl, CN, vinyl, O-(lower alkyl), hydroxyl lower alkyl, i.e., —(CH₂)_pOH, where p is 1-6, including hydroxyl methyl (CH₂OH), CH₂F, N₃, CH₂CN, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, alkyne (optionally substituted), or halogen, including F, Cl, Br, or I, with the provisos that when X is OH, base is cytosine and R⁶ is H, R⁵ cannot be N₃ and when X is OH, R⁶ is CH₃ or CH₂F and B is a purine base, R⁵ cannot be H;
- (f) R⁶ is H, CH₃, CH₂F, CHF₂, CF₃, F, or CN; (g) X is H, OH, F, OMe, halogen, NH₂, or N₃;
- (h) Y is OH, H, C₁₋₄ alkyl, C₂₋₄ alkenyl, C₂₋₄ alkynyl, vinyl, N₃, CN, Cl, Br, F, I, NO₂, OC(O)O(C₁₋₄ alkyl), OC(O)O(C₁₋₄ alkyl), OC(O)O(C₂₋₄ alkynyl), OC(O)O(C₂₋₄ alkenyl), OC₁₋₁₀ haloalkyl, O(aminoacyl), O(C₁₋₁₀ acyl), O(C₁₋₄ alkyl), O(C₂₋₄ alkenyl), S(C₁₋₄ acyl), S(C₁₋₄ alkyl), S(C₂₋₄ alkynyl), S(C₂₋₄ alkenyl), SO(C₁₋₄ acyl), SO(C₁₋₄ alkyl), SO(C₂₋₄ alkynyl), SO(C₂₋₄ alkenyl), SO₂(C₁₋₄ acyl), SO₂(C₁₋₄ alkyl), SO₂(C₂₋₄ alkynyl), SO₂(C₂₋₄ alkenyl), SO₂(C₂₋₄ alkynyl), OS(O)₂(C₁₋₄ acyl), OS(O)₂(C₁₋₄ alkyl), OS(O)₂(C₂₋₄ alkenyl), NH₂, NH(C₁₋₄ alkyl), NH(C₂₋₄ alkenyl), NH(C₂₋₄ alkynyl), NH(C₁₋₄ acyl), N(C₁₋₄ alkyl)₂, N(C₁₋₁₈ acyl)₂, wherein alkyl, alkynyl,

30

- alkenyl and vinyl are optionally substituted by N₃, CN, one to three halogen (Cl, Br, F, I), NO₂, C(O)O(C₁₋₄ alkyl), C(O)O(C₁₋₄ alkyl), C(O)O(C₂₋₄ alkynyl), C(O)O(C₂₋₄ alkenyl), O(C₁₋₄ acyl), O(C₁₋₄ alkyl), O(C₂₋₄ alkenyl), S(C₁₋₄ acyl), S(C₁₋₄ alkyl), S(C₂₋₄ alkynyl), S(C₂₋₄ alkenyl), SO(C₁₋₄ acyl), SO(C₁₋₄ alkyl), SO(C₂₋₄ alkynyl), SO(C₂₋₄ alkenyl), SO₂(C₁₋₄ acyl), SO₂(C₁₋₄ alkyl), SO₂(C₂₋₄ alkynyl), SO₂(C₂₋₄ alkenyl), OS(O)₂(C₁₋₄ acyl), OS(O)₂(C₁₋₄ alkyl), OS(O)₂(C₂₋₄ alkenyl), NH₂, NH(C₁₋₄ alkyl), NH(C₂₋₄ alkenyl), NH(C₂₋₄ alkynyl), NH(C₁₋₄ acyl), N(C₁₋₄ alkyl)₂, N(C₁₋₄ acyl)₂;
- (i) R¹⁰ and R¹¹ are independently H, F, Cl, Br, I, OH, OR', SH, SR', NH₂, NHR', NR'₂, lower alkyl of C₁₋₆, halogenated (F, Cl, Br, I) lower alkyl of C₁₋₆, lower alkenyl of C₂₋₆, halogenated (F, Cl, Br, I) lower alkenyl of C₂₋₆, lower alkynyl of C₂₋₆, lower alkoxy of C₁₋₆, halogenated (F, Cl, Br, I) lower alkoxy of C₁₋₆, CO₂H, CO₂R', CONH₂, CONHR', CONR'₂, CH=CHCO₂H, or CH=CHCO₂R', with the proviso that when R¹⁰ is OH and R¹¹ is not NH₂;
- wherein R' is an optionally substituted alkyl, which includes, but is not limited to, an optionally substituted C₁₋₂₀ alkyl, an optionally substituted C₁₋₁₀ alkyl, an optionally substituted lower alkyl; an optionally substituted cycloalkyl; an optionally substituted alkynyl of C₂₋₆, an optionally substituted lower alkenyl of C₂₋₆, or optionally substituted acyl, which includes but is not limited to C(O) alkyl, C(O)(C₁₋₂₀ alkyl), C(O)(C₁₋₁₀ alkyl), or C(O)(lower alkyl) or alternatively, in the instance of NR'₂, each R' comprise at least one C atom that are joined to form a heterocycle comprising at least two carbon atoms; and
- (j) Z is N or CR¹²; and
- R¹² is an H, halogen (including F, Cl, Br, I), OH, OR', SH, SR', NH₂, NHR', NR'₂, NO₂ lower alkyl of C₁₋₆, halogenated (F, Cl, Br, I) lower alkyl of C₁₋₆, lower alkenyl of C₂₋₆, halogenated (F, Cl, Br, I) lower alkenyl of C₂₋₆, lower alkynyl of C₂₋₆, halogenated (F, Cl, Br, I) lower alkynyl of C₂₋₆, lower alkoxy of C₁₋₆, halogenated (F, Cl, Br, I) lower alkoxy of C₁₋₆, CO₂H, CO₂R', CONH₂, CONHR', CONR'₂, CH=CHCO₂H, or CH=CHCO₂R'.
- A second aspect of the third embodiment is directed to a compound represented by formula 1-5
- wherein
- (a) R¹ is hydrogen, methyl, ethyl, n-propyl, i-propyl, phenyl, p-tolyl, p-bromo-phenyl, p-chloro-phenyl, p-fluorophenyl;
- (b) R² is hydrogen or CH₃;
- (c) R^{3a} is H and R^{3b} is H, CH₃, CH(CH₃)₂, CH₂CH(CH₃)₂, CH(CH₃)CH₂CH₃, CH₂Ph, CH₂-indol-3-yl, —CH₂CH₂SCH₃, CH₂CO₂H, CH₂C(O)NH₂, CH₂CH₂COOH, CH₂CH₂C(O)NH₂, CH₂CH₂CH₂CH₂NH₂, —CH₂CH₂CH₂NHC(NH)NH₂, CH₂-imidazol-4-yl, CH₂OH, CH(OH)CH₃, CH₂((4'-OH)-Ph), CH₂SH, or lower cycloalkyl;
- (d) R⁴ is hydrogen, CH₃, Et, ^tPr, ⁿBu, 2-butyl, ^tBu, benzyl, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, N-methyl-aziridin-2-yl, N-methyl-azetidin-3-yl, N-methyl-pyrrolidin-3-yl, N-methyl-pyrrolidin-4-yl, lower haloalkyl, or di(lower alkyl)amino-lower alkyl;
- (e) R⁵ is H, CN, CH₃, OCH₃, CH₂OH, CH₂F, halogen, including F, Cl, Br, or I, with the provisos that when X is OH, R⁶ is CH₃ or CH₂F, R⁵ cannot be H.
- (f) R⁶ is H, CH₃, CH₂F, CHF₂, CF₃, F, or CN;
- (g) X is H, OH, F, OCH₃, Cl, Br, I, NH₂, or N₃;

31

(h) Y is OH, H, CH₃, vinyl, NH₂, N₃, CN, Cl, Br, F, I, OC(O)CH₃, OCH₃;

(i) R¹⁰ and R¹¹ are independently H, F, Br, I, OH, OR', NH₂, NHR', NR'₂, CO₂R', CONH₂, CONHR', CONR'₂, CH=CHCO₂H, or CH=CHCO₂R', with the proviso that when R¹⁰ is OH and R¹¹ is not NH₂;

wherein R' is a lower alkyl, a lower cycloalkyl, or C(O) (lower alkyl) or alternatively, in the instance of NR'₂, each R' comprise at least one C atom that are joined to form a heterocycle comprising at least two carbon atoms; and

(j) Z is N or CR¹²; and

R¹² is an H, halogen (including F, Cl, Br, I), OR', NH₂, NHR', NR'₂, NO₂, lower alkyl of C₁-C₆, CO₂R', CONH₂, CONHR', CONR'₂, CH=CHCO₂H, or CH=CHCO₂R'.

A third aspect of the third embodiment is directed to a compound represented by formula I-5

wherein

(a) R¹ is hydrogen, methyl, ethyl, n-propyl, i-propyl, phenyl, p-tolyl, p-bromo-phenyl, p-chloro-phenyl, p-fluorophenyl;

(b) R² is hydrogen or CH₃;

(c) R^{3a} is H and R^{3b} is H, CH₃, CH(CH₃)₂, CH₂CH(CH₃)₂, CH(CH₃)CH₂CH₃, CH₂Ph, or lower cycloalkyl;

(d) R⁴ is hydrogen, CH₃, Et, ⁱPr, ⁿPr, ^tBu, 2-butyl, ^tBu, benzyl, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, N-methyl-aziridin-2-yl, N-methyl-azetid-3-yl, N-methyl-pyrrolidin-3-yl, N-methyl-pyrrolidin-4-yl, N-methyl-piperidin-4-yl, lower haloalkyl, or di(lower alkyl)amino-lower alkyl;

(e) R⁵ is H, CN, CH₂F, F, Cl, Br, or I; with the proviso that X is OH, R⁶ is CH₃ or CH₂F, R⁵ cannot be H;

(f) R⁶ is H, CH₃, CH₂F, CHF₂, CF₃, or F;

(g) X is H, OH, F, OCH₃, F, Cl, Br, I, NH₂ or N₃;

(h) Y is H, OH, CH₃, F, Cl, Br, I, NH₂ or N₃, OCH₃, or OC(O)CH₃;

(i) R¹⁰ and R¹¹ are independently H, F, Br, I, OH, OR', NH₂, NHR', NR'₂, CO₂R', CONH₂, CONHR', CONR'₂, CH=CHCO₂H, or CH=CHCO₂R', with the proviso that when R¹⁰ is OH and R¹¹ is not NH₂;

wherein R' is a lower alkyl, a lower cycloalkyl, or C(O) (lower alkyl) or alternatively, in the instance of NR'₂, each R' comprise at least one C atom that are joined to form a heterocycle comprising at least two carbon atoms; and

(j) Z is N or CR¹²; and

R¹² is an H, halogen (including F, Cl, Br, I), OR', NH₂, NHR', NR'₂, NO₂, lower alkyl of C₁-C₆, CO₂R', CONH₂, CONHR', CONR'₂, CH=CHCO₂H, or CH=CHCO₂R'.

A fourth aspect of the third embodiment is directed to a compound represented by formula I-5

wherein

(a) R¹ is hydrogen, methyl, ethyl, n-propyl, i-propyl, phenyl, p-tolyl, p-bromo-phenyl, p-chloro-phenyl, p-fluorophenyl;

(b) R² is hydrogen;

(c) R^{3a} is H and R^{3b} is H, CH₃, CH(CH₃)₂, CH₂CH(CH₃)₂, CH(CH₃)CH₂CH₃, CH₂Ph, or lower cycloalkyl;

(d) R⁴ is hydrogen, CH₃, Et, ⁱPr, ⁿPr, ^tBu, 2-butyl, ^tBu, benzyl, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, N-methyl-aziridin-2-yl, N-methyl-azetid-3-yl, N-methyl-pyrrolidin-3-yl, N-methyl-pyrrolidin-4-yl, N-methyl-piperidin-4-yl, lower haloalkyl, or di(lower alkyl)amino-lower alkyl;

32

(e) R⁵ is H, with the provisos that when X is OH, R⁶ is CH₃ or CH₂F, R⁵ cannot be H;

(f) R⁶ is H, CH₃, CH₂F, CHF₂, CF₃, or F;

(g) X is H, OH, OCH₃, F, NH₂ or N₃;

(h) Y is OH, NH₂, OCH₃, or OC(O)CH₃;

(i) R¹⁰ and R¹¹ are independently H, F, Br, I, OH, OR', NH₂, NHR', NR'₂, CO₂R', CONH₂, CONHR', CONR'₂, CH=CHCO₂H, or CH=CHCO₂R', with the proviso that when R¹⁰ is OH and R¹¹ is not NH₂;

wherein R' is a lower alkyl, a lower cycloalkyl, or C(O) (lower alkyl) or alternatively, in the instance of NR'₂, each R' comprise at least one C atom that are joined to form a heterocycle comprising at least two carbon atoms; and

(j) Z is N or CR¹²; and

R¹² is an H, halogen (including F, Cl, Br, I), OR', NH₂, NHR', NR'₂, NO₂, lower alkyl of C₁-C₆, CO₂R', CONH₂, CONHR', CONR'₂, CH=CHCO₂H, or CH=CHCO₂R'.

A fifth aspect of the third embodiment is directed to a compound represented by formula I-5

wherein

(a) R¹ is hydrogen, methyl, phenyl, p-bromo-phenyl, p-chloro-phenyl, p-fluorophenyl;

(b) R² is hydrogen;

(c) R^{3a} is H and R^{3b} is H, CH₃, CH(CH₃)₂, CH₂CH(CH₃)₂, CH(CH₃)CH₂CH₃, CH₂Ph, or lower cycloalkyl;

(d) R⁴ is hydrogen, CH₃, Et, ⁱPr, ⁿPr, ^tBu, 2-butyl, ^tBu, benzyl, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, N-methyl-aziridin-2-yl, N-methyl-azetid-3-yl, N-methyl-pyrrolidin-3-yl, N-methyl-pyrrolidin-4-yl, N-methyl-piperidin-4-yl, lower haloalkyl, or di(lower alkyl)amino-lower alkyl;

(e) R⁵ is H, with the provisos that when X is OH, R⁶ is CH₃ or CH₂F, R⁵ cannot be H;

(f) R⁶ is H, CH₃, CH₂F, CHF₂, CF₃, or F;

(g) X is H, OH, OCH₃, F, NH₂ or N₃;

(h) Y is OH, NH₂, OCH₃, or OC(O)CH₃;

(i) R¹⁰ and R¹¹ are independently H, F, Br, I, OH, OR', NH₂, NHR', NR'₂, CO₂R', CONH₂, CONHR', CONR'₂, CH=CHCO₂H, or CH=CHCO₂R', with the proviso that when R¹⁰ is OH and R¹¹ is not NH₂;

wherein R' is a lower alkyl, a lower cycloalkyl, or C(O) (lower alkyl) or alternatively, in the instance of NR'₂, each R' comprise at least one C atom that are joined to form a heterocycle comprising at least two carbon atoms; and

(j) Z is N or CR¹²; and

R¹² is an H, halogen (including F, Cl, Br, I), OR', NH₂, NHR', NR'₂, NO₂, lower alkyl of C₁-C₆, CO₂R', CONH₂, CONHR', CONR'₂, CH=CHCO₂H, or CH=CHCO₂R'.

A sixth aspect of the third embodiment is directed to a compound represented by formula I-5

wherein

(a) R¹ is hydrogen, methyl, ethyl, n-propyl, i-propyl, phenyl, p-tolyl, p-bromo-phenyl, p-chloro-phenyl, p-fluorophenyl;

(b) R² is hydrogen or CH₃;

(c) R^{3a} is H and R^{3b} is H, CH₃, CH(CH₃)₂, CH₂CH(CH₃)₂, CH(CH₃)CH₂CH₃, CH₂Ph, CH₂-indol-3-yl, —CH₂CH₂SCH₃, CH₂CO₂H, CH₂C(O)NH₂, CH₂CH₂COOH, CH₂CH₂C(O)NH₂, CH₂CH₂CH₂CH₂NH₂, —CH₂CH₂CH₂NHC(NH)NH₂, CH₂-imidazol-4-yl, CH₂OH, CH(OH)CH₃, CH₂((4'-OH)-Ph), CH₂SH, or lower cycloalkyl;

33

- (d) R⁴ is hydrogen, CH₃, Et, ^tPr, ⁿPr, ⁿBu, 2-butyl, ^tBu, benzyl, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, N-methyl-aziridin-2-yl, N-methyl-azetidin-3-yl, N-methyl-pyrrolidin-3-yl, N-methyl-pyrrolidin-4-yl, N-methyl-piperidin-4-yl, lower haloalkyl, or di(lower alkyl)amino-lower alkyl;
- (e) R⁵ is H, CN, CH₃, OCH₃, CH₂OH, CH₂F, halogen, including F, Cl, Br, or I, with the provisos that when X is OH, R⁶ is CH₃ or CH₂F, R⁵ cannot be H;
- (f) R⁶ is H, CH₃, CH₂F, CHF₂, CF₃, F, or CN;
- (g) X is H, OH, F, OCH₃, Cl, Br, I, NH₂, or N₃;
- (h) Y is OH, H, CH₃, vinyl, NH₂, N₃, CN, Cl, Br, F, I, OC(O)CH₃, OCH₃;
- (i) R¹⁰ is NH₂ and R¹¹ is H, F, Br, I, OH, OR', NH₂, NHR', NR'₂, CO₂R', CONH₂, CONHR', CONR'₂, CH=CHCO₂H, or CH=CHCO₂R';
- wherein R' is a lower alkyl, a lower cycloalkyl, or C(O) (lower alkyl) or alternatively, in the instance of NR'₂, each R' comprise at least one C atom that are joined to form a heterocycle comprising at least two carbon atoms; and
- (j) Z is N or CR¹²; and R¹² is an H, halogen (including F, Cl, Br, I), OR', NH₂, NHR', NR'₂, NO₂, lower alkyl of C₁-C₆, CO₂R', CONH₂, CONHR', CONR'₂, CH=CHCO₂H, or CH=CHCO₂R'.

A seventh aspect of the third embodiment is directed to a compound represented by formula I-5

wherein

- (a) R¹ is hydrogen, methyl, ethyl, n-propyl, i-propyl, phenyl, p-tolyl, p-bromo-phenyl, p-chloro-phenyl, p-fluorophenyl;
- (b) R² is hydrogen or CH₃;
- (c) R^{3a} is H and R^{3b} is H, CH₃, CH(CH₃)₂, CH₂CH(CH₃)₂, CH(CH₃)CH₂CH₃, CH₂Ph, or lower cycloalkyl;
- (d) R⁴ is hydrogen, CH₃, Et, ^tPr, ⁿPr, ⁿBu, 2-butyl, ^tBu, benzyl, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, N-methyl-aziridin-2-yl, N-methyl-azetidin-3-yl, N-methyl-pyrrolidin-3-yl, N-methyl-pyrrolidin-4-yl, N-methyl-piperidin-4-yl, lower haloalkyl, or di(lower alkyl)amino-lower alkyl;
- (e) R⁵ is H, CN, CH₂F, F, Cl, Br, or I; with the proviso that X is OH, R⁶ is CH₃ or CH₂F, R⁵ cannot be H;
- (f) R⁶ is H, CH₃, CH₂F, CHF₂, CF₃, or F;
- (g) X is H, OH, F, OCH₃, F, Cl, Br, I, NH₂ or N₃;
- (h) Y is H, OH, CH₃, F, Cl, Br, I, NH₂ or N₃, OCH₃, or OC(O)CH₃;
- (i) R¹⁰ is NH₂ and R¹¹ is H, F, Br, I, OH, OR', NH₂, NHR', NR'₂, CO₂R', CONH₂, CONHR', CONR'₂, CH=CHCO₂H, or CH=CHCO₂R';

wherein R' is a lower alkyl, a lower cycloalkyl, or C(O) (lower alkyl) or alternatively, in the instance of NR'₂, each R' comprise at least one C atom that are joined to form a heterocycle comprising at least two carbon atoms; and

(j) Z is N or CR¹²; and

R¹² is an H, halogen (including F, Cl, Br, I), OR', NH₂, NHR', NR'₂, NO₂, lower alkyl of C₁-C₆, CO₂R', CONH₂, CONHR', CONR'₂, CH=CHCO₂H, or CH=CHCO₂R'.

An eighth aspect of the third embodiment is directed to a compound represented by formula I-5

wherein

- (a) R¹ is hydrogen, methyl, ethyl, n-propyl, i-propyl, phenyl, p-tolyl, p-bromo-phenyl, p-chloro-phenyl, p-fluorophenyl;
- (b) R² is hydrogen;

34

- (c) R^{3a} is H and R^{3b} is H, CH₃, CH(CH₃)₂, CH₂CH(CH₃)₂, CH(CH₃)CH₂CH₃, CH₂Ph, or lower cycloalkyl;
- (d) R⁴ is hydrogen, CH₃, Et, ^tPr, ⁿPr, ⁿBu, 2-butyl, ^tBu, benzyl, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, N-methyl-aziridin-2-yl, N-methyl-azetidin-3-yl, N-methyl-pyrrolidin-3-yl, N-methyl-pyrrolidin-4-yl, N-methyl-piperidin-4-yl, lower haloalkyl;
- (e) R⁵ is H, with the provisos that when X is OH, R⁶ is CH₃ or CH₂F, R⁵ cannot be H;
- (f) R⁶ is H, CH₃, CH₂F, CHF₂, CF₃, or F;
- (g) X is H, OH, OCH₃, F, NH₂ or N₃;
- (h) Y is OH, NH₂, OCH₃, or OC(O)CH₃;
- (i) R¹⁰ is NH₂ and R¹¹ is H, F, Br, I, OH, OR', NH₂, NHR', NR'₂, CO₂R', CONH₂, CONHR', CONR'₂, CH=CHCO₂H, or CH=CHCO₂R';

wherein R' is a lower alkyl, a lower cycloalkyl, or C(O) (lower alkyl) or alternatively, in the instance of NR'₂, each R' comprise at least one C atom that are joined to form a heterocycle comprising at least two carbon atoms; and

(j) Z is N or CR¹²; and

R¹² is an H, halogen (including F, Cl, Br, I), OR', NH₂, NHR', NR'₂, NO₂, lower alkyl of C₁-C₆, CO₂R', CONH₂, CONHR', CONR'₂, CH=CHCO₂H, or CH=CHCO₂R'.

A ninth aspect of the third embodiment is directed to a compound represented by formula I-5

wherein

- (a) R¹ is hydrogen, methyl, phenyl, p-bromo-phenyl, p-chloro-phenyl, p-fluorophenyl;
- (b) R² is hydrogen;
- (c) R^{3a} is H and R^{3b} is H, CH₃, CH(CH₃)₂, CH₂CH(CH₃)₂, CH(CH₃)CH₂CH₃, CH₂Ph, or lower cycloalkyl;
- (d) R⁴ is hydrogen, CH₃, Et, ^tPr, ⁿPr, 2-butyl, ^tBu, benzyl, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, N-methyl-aziridin-2-yl, N-methyl-azetidin-3-yl, N-methyl-pyrrolidin-3-yl, or N-methyl-pyrrolidin-4-yl, lower haloalkyl, or di(lower alkyl)amino-lower alkyl;
- (e) R⁵ is H, with the provisos that when X is OH, R⁶ is CH₃ or CH₂F, R⁵ cannot be H;
- (f) R⁶ is H, CH₃, CH₂F, CHF₂, CF₃, or F;
- (g) X is H, OH, OCH₃, F, NH₂ or N₃;
- (h) Y is OH, NH₂, OCH₃, or OC(O)CH₃;
- (i) R¹⁰ is NH₂ and R¹¹ is H, F, Br, I, OH, OR', NH₂, NHR', NR'₂, CO₂R', CONH₂, CONHR', CONR'₂, CH=CHCO₂H, or CH=CHCO₂R';

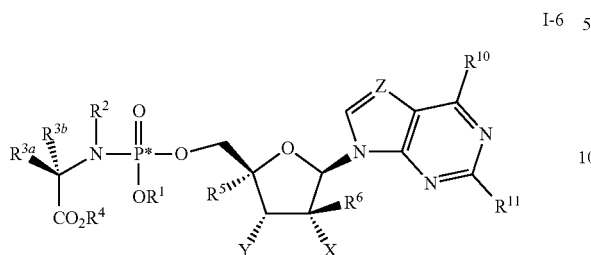
wherein R' is a lower alkyl, a lower cycloalkyl, or C(O) (lower alkyl) or alternatively, in the instance of NR'₂, each R' comprise at least one C atom that are joined to form a heterocycle comprising at least two carbon atoms; and

(j) Z is N or CR¹²; and

R¹² is an H, halogen (including F, Cl, Br, I), OR', NH₂, NHR', NR'₂, NO₂, lower alkyl of C₁-C₆, CO₂R', CONH₂, CONHR', CONR'₂, CH=CHCO₂H, or CH=CHCO₂R'.

35

A tenth aspect of the third embodiment is directed to a compound represented by formula I-6



wherein

- (a) R^f is hydrogen, n-alkyl; branched alkyl; cycloalkyl; or aryl, which includes, but is not limited to, phenyl or naphthyl, where phenyl or naphthyl are optionally substituted with at least one of C_{1-6} alkyl, C_{2-6} alkenyl, C_{2-6} alkynyl, C_{1-6} alkoxy, F, Cl, Br, I, nitro, cyano, C_{1-6} haloalkyl, $-N(R^{1'})_2$, C_{1-6} acylamino, $-NHSO_2C_{1-6}$ alkyl, $-SO_2N(R^{1'})_2$, $COR^{1'}$, and $-SO_2C_{1-6}$ alkyl; ($R^{1'}$ is independently hydrogen or alkyl, which includes, but is not limited to, C_{1-20} alkyl, C_{1-10} alkyl, or C_{1-6} alkyl, $R^{1'}$ is $-OR'$ or $-N(R^{1'})_2$);
- (b) R^2 is hydrogen or CH_3 ;
- (c) R^{3a} and R^{3b} are (i) independently selected from hydrogen, C_{1-10} alkyl, cycloalkyl, $-(CH_2)_c(NR^{3'})_2$, C_{1-6} hydroxyalkyl, $-CH_2SH$, $-(CH_2)_dS(O)_eMe$, $-(CH_2)_3NHC(=NH)NH_2$, (1H-indol-3-yl)methyl, (1H-imidazol-4-yl)methyl, $-(CH_2)_fCOR^{3'}$, aryl and aryl C_{1-3} alkyl, said aryl groups optionally substituted with a group selected from hydroxyl, C_{1-10} alkyl, C_{1-6} alkoxy, halogen, nitro and cyano; (ii) R^{3a} and R^{3b} both are C_{1-6} alkyl; (iii) R^{3a} and R^{3b} together are $(CH_2)_f$ so as to form a spiro ring; (iv) R^{3a} is hydrogen and R^{3b} and R^2 together are $(CH_2)_n$ so as to form a cyclic ring that includes the adjoining N and C atoms (v) R^{3b} is hydrogen and R^{3a} and R^2 together are $(CH_2)_n$ so as to form a cyclic ring that includes the adjoining N and C atoms, where c is 1 to 6, d is 0 to 2, e is 0 to 3, f is 2 to 5, n is 2 to 4, and where $R^{3'}$ is independently hydrogen or C_{1-6} alkyl and $R^{3'}$ is $-OR'$ or $-N(R^{3'})_2$; (vi) R^{3a} is H and R^{3b} is H, CH_3 , CH_2CH_3 , $CH(CH_3)_2$, $CH_2CH(CH_3)_2$, $CH(CH_3)CH_2CH_3$, CH_2Ph , CH_2 -indol-3-yl, $-CH_2CH_2SCH_3$, CH_2CO_2H , $CH_2C(O)NH_2$, CH_2CH_2COOH , $CH_2CH_2C(O)NH_2$, $CH_2CH_2CH_2CH_2NH_2$, $-CH_2CH_2CH_2NHC(NH)NH_2$, CH_2 -imidazol-4-yl, CH_2OH , $CH(OH)CH_3$, $CH_2((4'-OH)-Ph)$, CH_2SH , or lower cycloalkyl; or (viii) R^{3a} is CH_3 , $-CH_2CH_3$, $CH(CH_3)_2$, $CH_2CH(CH_3)_2$, $CH(CH_3)CH_2CH_3$, CH_2Ph , CH_2 -indol-3-yl, $-CH_2CH_2SCH_3$, CH_2CO_2H , $CH_2C(O)NH_2$, CH_2CH_2COOH , $CH_2CH_2C(O)NH_2$, $CH_2CH_2CH_2CH_2NH_2$, $-CH_2CH_2CH_2NHC(NH)NH_2$, CH_2 -imidazol-4-yl, CH_2OH , $CH(OH)CH_3$, $CH_2((4'-OH)-Ph)$, CH_2SH , or lower cycloalkyl and R^{3b} is H, where $R^{3'}$ is independently hydrogen or alkyl, which includes, but is not limited to, C_{1-20} alkyl, C_{1-10} alkyl, or C_{1-6} alkyl, $R^{3'}$ is $-OR'$ or $-N(R^{3'})_2$);
- (d) R^4 is hydrogen, C_{1-10} alkyl, C_{1-10} alkyl optionally substituted with a lower alkyl, alkoxy or halogen, C_{1-10} haloalkyl, C_{3-10} cycloalkyl, cycloalkyl alkyl, cycloheteroalkyl, aminoacyl, di(lower alkyl)amino-lower alkyl, aryl, such as phenyl, heteroaryl, such as, pyridinyl, substituted aryl, or substituted heteroaryl;
- (e) R^5 is H, a lower alkyl, CN, vinyl, O-(lower alkyl), hydroxyl lower alkyl, i.e., $-(CH_2)_pOH$, where p is 1-6,

36

including hydroxylmethyl (CH_2OH), CH_2F , N_3 , CH_2CN , CH_2NH_2 , CH_2NHCH_3 , $CH_2N(CH_3)_2$, alkyl (optionally substituted), or halogen, including F, Cl, Br, or I, with the provisos that when X is OH, base is cytosine and R^6 is H, R^5 cannot be N_3 and when X is OH, R^6 is CH_3 or CH_2F and B is a purine base, R^5 cannot be H;

- (f) R^6 is H, CH_3 , CH_2F , CHF_2 , CF_3 , F, or CN;
- (g) X is H, OH, F, OMe, Cl, Br, I, NH_2 , or N_3 ;
- (h) Y is OH, H, C_{1-4} alkyl, C_{2-4} alkenyl, C_{2-4} alkynyl, vinyl, N_3 , CN, Cl, Br, F, I, NO_2 , $OC(O)O(C_{1-4}$ alkyl), $OC(O)O(C_{1-4}$ alkyl), $OC(O)O(C_{2-4}$ alkynyl), $OC(O)O(C_{2-4}$ alkenyl), OC_{1-10} haloalkyl, O(aminoacyl), $O(C_{1-10}$ acyl), $O(C_{1-4}$ alkyl), $O(C_{2-4}$ alkenyl), $S(C_{1-4}$ acyl), $S(C_{1-4}$ alkyl), $S(C_{2-4}$ alkynyl), $S(C_{2-4}$ alkenyl), $SO(C_{1-4}$ acyl), $SO(C_{1-4}$ alkyl), $SO(C_{2-4}$ alkynyl), $SO(C_{2-4}$ alkenyl), $SO_2(C_{1-4}$ acyl), $SO_2(C_{1-4}$ alkyl), $SO_2(C_{2-4}$ alkynyl), $SO_2(C_{2-4}$ alkenyl), $OS(O)_2(C_{1-4}$ acyl), $OS(O)_2(C_{1-4}$ alkyl), $OS(O)_2(C_{2-4}$ alkynyl), $OS(O)_2(C_{2-4}$ alkenyl), NH_2 , $NH(C_{1-4}$ alkyl), $NH(C_{2-4}$ alkenyl), $NH(C_{2-4}$ alkynyl), $NH(C_{1-4}$ acyl), $N(C_{1-4}$ alkyl)_2, $N(C_{1-18}$ acyl)_2, wherein alkyl, alkynyl, alkenyl and vinyl are optionally substituted by N_3 , CN, one to three halogen (Cl, Br, F, I), NO_2 , $C(O)O(C_{1-4}$ alkyl), $C(O)O(C_{1-4}$ alkyl), $C(O)O(C_{2-4}$ alkynyl), $C(O)O(C_{2-4}$ alkenyl), $O(C_{1-4}$ acyl), $O(C_{1-4}$ alkyl), $O(C_{2-4}$ alkenyl), $S(C_{1-4}$ acyl), $S(C_{1-4}$ alkyl), $S(C_{2-4}$ alkynyl), $S(C_{2-4}$ alkenyl), $SO(C_{1-4}$ acyl), $SO(C_{1-4}$ alkyl), $SO(C_{2-4}$ alkynyl), $SO(C_{2-4}$ alkenyl), $SO_2(C_{1-4}$ acyl), $SO_2(C_{1-4}$ alkyl), $SO_2(C_{2-4}$ alkynyl), $SO_2(C_{2-4}$ alkenyl), $OS(O)_2(C_{1-4}$ acyl), $OS(O)_2(C_{1-4}$ alkyl), $OS(O)_2(C_{2-4}$ alkynyl), $OS(O)_2(C_{2-4}$ alkenyl), NH_2 , $NH(C_{1-4}$ alkyl), $NH(C_{2-4}$ alkenyl), $NH(C_{2-4}$ alkynyl), $NH(C_{1-4}$ acyl), $N(C_{1-4}$ alkyl)_2, $N(C_{1-4}$ acyl)_2;
- (i) R^{10} and R^{11} are independently H, F, Br, I, OH, OR' , NH_2 , NHR' , NR'_2 , CO_2R' , $CONH_2$, $CONHR'$, $CONR'_2$, $CH=CHCO_2H$, or $CH=CHCO_2R'$, with the proviso that when R^{10} is OH and R^{11} is not NH_2 ;

wherein R' is a lower alkyl, a lower cycloalkyl, or C(O) (lower alkyl) or alternatively, in the instance of NR'_2 , each R' comprise at least one C atom that are joined to form a heterocycle comprising at least two carbon atoms; and

- (j) Z is N or CR^{12} ; and R^{12} is an H, halogen (including F, Cl, Br, I), OR' , NH_2 , NHR' , NR'_2 , NO_2 , lower alkyl of C_1-C_6 , CO_2R' , $CONH_2$, $CONHR'$, $CONR'_2$, $CH=CHCO_2H$, or $CH=CHCO_2R'$.

An eleventh aspect of the third embodiment is directed to a compound represented by formula I-6

wherein

- (a) R^1 is hydrogen, methyl, ethyl, n-propyl, i-propyl, phenyl, p-tolyl, p-bromo-phenyl, p-chloro-phenyl, p-fluorophenyl;
- (b) R^2 is hydrogen or CH_3 ;
- (c) R^{3a} is H and R^{3b} is H, CH_3 , $CH(CH_3)_2$, $CH_2CH(CH_3)_2$, $CH(CH_3)CH_2CH_3$, CH_2Ph , CH_2 -indol-3-yl, $-CH_2CH_2SCH_3$, CH_2CO_2H , $CH_2C(O)NH_2$, CH_2CH_2COOH , $CH_2CH_2C(O)NH_2$, $CH_2CH_2CH_2CH_2NH_2$, $-CH_2CH_2CH_2NHC(NH)NH_2$, CH_2 -imidazol-4-yl, CH_2OH , $CH(OH)CH_3$, $CH_2((4'-OH)-Ph)$, CH_2SH , or lower cycloalkyl;
- (d) R^4 is hydrogen, CH_3 , Et, tPr , tBu , 2-butyl, iBu , benzyl, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, N-methyl-aziridin-2-yl, N-methyl-azetidin-3-yl, N-methyl-pyrrolidin-3-yl, N-methyl-pyrrolidin-4-yl, N-methyl-piperidin-4-yl, lower haloalkyl, or di(lower alkyl) amino-lower alkyl;

37

- (e) R⁵ is H, CN, CH₃, OCH₃, CH₂OH, CH₂F, halogen, including F, Cl, Br, or I, with the provisos that when X is OH, R⁶ is CH₃ or CH₂F, R⁵ cannot be H;
- (f) R⁶ is H, CH₃, CH₂F, CHF₂, CF₃, F, or CN;
- (g) X is H, OH, F, OCH₃, Cl, Br, I, NH₂, or N₃;
- (h) Y is OH, H, CH₃, vinyl, NH₂, N₃, CN, Cl, Br, F, I, OC(O)CH₃, OCH₃;
- (i) R¹⁰ and R¹¹ are independently H, F, Br, I, OH, OR', NH₂, NHR', NR'₂, CO₂R', CONH₂, CONHR', CONR'₂, CH=CHCO₂H, or CH=CHCO₂R', with the proviso that when R¹⁰ is OH and R¹¹ is not NH₂;
- wherein R' is a lower alkyl, a lower cycloalkyl, or C(O) (lower alkyl) or alternatively, in the instance of NR'₂, each R' comprise at least one C atom that are joined to form a heterocycle comprising at least two carbon atoms; and
- (j) Z is N or CR¹²; and R¹² is an H, halogen (including F, Cl, Br, I), OR', NH₂, NHR', NR'₂, NO₂, lower alkyl of C₁-C₆, CO₂R', CONH₂, CONHR', CONR'₂, CH=CHCO₂H, or CH=CHCO₂R'.

A twelfth aspect of the third embodiment is directed to a compound represented by formula I-6 wherein

- (a) R¹ is hydrogen, methyl, ethyl, n-propyl, i-propyl, phenyl, p-tolyl, p-bromo-phenyl, p-chloro-phenyl, p-fluorophenyl;
- (b) R² is hydrogen or CH₃;
- (c) R^{3a} is H and R^{3b} is H, CH₃, CH(CH₃)₂, CH₂CH(CH₃)₂, CH(CH₃)CH₂CH₃, CH₂Ph, or lower cycloalkyl;
- (d) R⁴ is hydrogen, CH₃, Et, ⁱPr, ⁿPr, ^tBu, 2-butyl, ^tBu, benzyl, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, N-methyl-aziridin-2-yl, N-methyl-azetidin-3-yl, N-methyl-pyrrolidin-3-yl, N-methyl-pyrrolidin-4-yl, N-methyl-piperidin-4-yl, lower haloalkyl, or di(lower alkyl)amino-lower alkyl;
- (e) R⁵ is H, CN, CH₂F, F, Cl, Br, or I, with the provisos that when X is OH, R⁶ is CH₃ or CH₂F, R⁵ cannot be H;
- (f) R⁶ is H, CH₃, CH₂F, CHF₂, CF₃, or F;
- (g) X is H, OH, F, OCH₃, F, Cl, Br, I, NH₂ or N₃;
- (h) Y is H, OH, CH₃, F, Cl, Br, I, NH₂ or N₃, OCH₃, or OC(O)CH₃;
- (i) R¹⁰ and R¹¹ are independently H, F, Br, I, OH, OR', NH₂, NHR', NR'₂, CO₂R', CONH₂, CONHR', CONR'₂, CH=CHCO₂H, or CH=CHCO₂R', with the proviso that when R¹⁰ is OH and R¹¹ is not NH₂;
- wherein R' is a lower alkyl, a lower cycloalkyl, or C(O) (lower alkyl) or alternatively, in the instance of NR'₂, each R' comprise at least one C atom that are joined to form a heterocycle comprising at least two carbon atoms; and
- (j) Z is N or CR¹²; and R¹² is a H, halogen (including F, Cl, Br, I), OR', NH₂, NHR', NR'₂, NO₂, lower alkyl of C₁-C₆, CO₂R', CONH₂, CONHR', CONR'₂, CH=CHCO₂H, or CH=CHCO₂R'.

A thirteenth aspect of the third embodiment is directed to a compound represented by formula I-6 wherein

- (a) R¹ is hydrogen, methyl, ethyl, n-propyl, i-propyl, phenyl, p-tolyl, p-bromo-phenyl, p-chloro-phenyl, p-fluorophenyl;
- (b) R² is hydrogen;
- (c) R^{3a} is H and R^{3b} is H, CH₃, CH(CH₃)₂, CH₂CH(CH₃)₂, CH(CH₃)CH₂CH₃, CH₂Ph, or lower cycloalkyl;
- (d) R⁴ is hydrogen, CH₃, Et, ⁱPr, ⁿPr, ^tBu, 2-butyl, ^tBu, benzyl, cyclopropyl, cyclobutyl, cyclopentyl, cyclo-

38

- hexyl, N-methyl-aziridin-2-yl, N-methyl-azetidin-3-yl, N-methyl-pyrrolidin-3-yl, N-methyl-pyrrolidin-4-yl, N-methyl-piperidin-4-yl, lower haloalkyl, or di(lower alkyl)amino-lower alkyl;
- (e) R⁵ is H, with the provisos that when X is OH, R⁶ is CH₃ or CH₂F, R⁵ cannot be H;
- (f) R⁶ is H, CH₃, CH₂F, CHF₂, CF₃, or F;
- (g) X is H, OH, OCH₃, F, NH₂ or N₃;
- (h) Y is OH, NH₂, OCH₃, or OC(O)CH₃;
- (i) R¹⁰ and R¹¹ are independently H, F, Br, I, OH, OR', NH₂, NHR', NR'₂, CO₂R', CONH₂, CONHR', CONR'₂, CH=CHCO₂H, or CH=CHCO₂R', with the proviso that when R¹⁰ is OH and R¹¹ is not NH₂;
- wherein R' is a lower alkyl, a lower cycloalkyl, or C(O) (lower alkyl) or alternatively, in the instance of NR'₂, each R' comprise at least one C atom that are joined to form a heterocycle comprising at least two carbon atoms; and
- (j) Z is N or CR¹²; and R¹² is an H, halogen (including F, Cl, Br, I), OR', NH₂, NHR', NR'₂, NO₂, lower alkyl of C₁-C₆, CO₂R', CONH₂, CONHR', CONR'₂, CH=CHCO₂H, or CH=CHCO₂R'.

A fourteenth aspect of the third embodiment is directed to a compound represented by formula I-6 wherein

- (a) R¹ is hydrogen, methyl, phenyl, p-bromo-phenyl, p-chloro-phenyl, p-fluorophenyl;
- (b) R² is hydrogen;
- (c) R^{3a} is H and R^{3b} is H, CH₃, CH(CH₃)₂, CH₂CH(CH₃)₂, CH(CH₃)CH₂CH₃, CH₂Ph, or lower cycloalkyl;
- (d) R⁴ is hydrogen, CH₃, Et, ⁱPr, ⁿPr, ^tBu, 2-butyl, ^tBu, benzyl, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, N-methyl-aziridin-2-yl, N-methyl-azetidin-3-yl, N-methyl-pyrrolidin-3-yl, N-methyl-pyrrolidin-4-yl, N-methyl-piperidin-4-yl, lower haloalkyl, or di(lower alkyl)amino-lower alkyl;
- (e) R⁵ is H, with the provisos that when X is OH, R⁶ is CH₃ or CH₂F, R⁵ cannot be H;
- (f) R⁶ is H, CH₃, CH₂F, CHF₂, CF₃, or F;
- (g) X is H, OH, OCH₃, F, NH₂ or N₃;
- (h) Y is OH, NH₂, OCH₃, or OC(O)CH₃;
- (i) R¹⁰ and R¹¹ are independently H, F, Br, I, OH, OR', NH₂, NHR', NR'₂, CO₂R', CONH₂, CONHR', CONR'₂, CH=CHCO₂H, or CH=CHCO₂R', with the proviso that when R¹⁰ is OH and R¹¹ is not NH₂;
- wherein R' is a lower alkyl, a lower cycloalkyl, or C(O) (lower alkyl) or alternatively, in the instance of NR'₂, each R' comprise at least one C atom that are joined to form a heterocycle comprising at least two carbon atoms; and
- (j) Z is N or CR¹²; and R¹² is an H, halogen (including F, Cl, Br, I), OR', NH₂, NHR', NR'₂, NO₂, lower alkyl of C₁-C₆, CO₂R', CONH₂, CONHR', CONR'₂, CH=CHCO₂H, or CH=CHCO₂R'.

A fifteenth aspect of the third embodiment is directed to a compound represented by formula I-6 wherein

- (a) R¹ is hydrogen, n-alkyl; branched alkyl; cycloalkyl; or aryl, which includes, but is not limited to, phenyl or naphthyl, where phenyl or naphthyl are optionally substituted with at least one of C₁₋₆ alkyl, C₂₋₆ alkenyl, C₂₋₆ alkynyl, C₁₋₆ alkoxy, F, Cl, Br, I, nitro, cyano, C₁₋₆ haloalkyl, —N(R¹)₂, C₁₋₆ acylamino, —NHSO₂C₁₋₆ alkyl, —SO₂N(R¹)₂, COR¹, and —SO₂C₁₋₆ alkyl; (R¹ is independently hydrogen or alkyl, which includes, but

39

- is not limited to, C₁₋₂₀ alkyl, C₁₋₁₀ alkyl, or C₁₋₆ alkyl, R^{1'} is —OR' or —N(R^{1'})₂;
- (b) R² is hydrogen or CH₃;
- (c) R^{3a} and R^{3b} are (i) independently selected from hydrogen, C₁₋₁₀ alkyl, cycloalkyl, —(CH₂)_c(NR^{3'})₂, C₁₋₆ hydroxyalkyl, —CH₂SH, —(CH₂)_dS(O)_eMe, —(CH₂)₃NHC(=NH)NH₂, (1H-indol-3-yl)methyl, (1H-imidazol-4-yl)methyl, —(CH₂)_fCOR^{3''}, aryl and aryl C₁₋₃ alkyl, said aryl groups optionally substituted with a group selected from hydroxyl, C₁₋₁₀ alkyl, C₁₋₆ alkoxy, halogen, nitro and cyano; (ii) R^{3a} and R^{3b} both are C₁₋₆ alkyl; (iii) R^{3a} and R^{3b} together are (CH₂)_f so as to form a spiro ring; (iv) R^{3a} is hydrogen and R^{3b} and R² together are (CH₂)_n so as to form a cyclic ring that includes the adjoining N and C atoms (v) R^{3b} is hydrogen and R^{3a} and R² together are (CH₂)_n so as to form a cyclic ring that includes the adjoining N and C atoms, where c is 1 to 6, d is 0 to 2, e is 0 to 3, f is 2 to 5, n is 2 to 4, and where R^{3'} is independently hydrogen or C₁₋₆ alkyl and R^{3''} is —OR' or —N(R^{3'})₂; (vi) R^{3a} is H and R^{3b} is H, CH₃, CH₂CH₃, CH(CH₃)₂, CH₂CH(CH₃)₂, CH(CH₃)CH₂CH₃, CH₂Ph, CH₂-indol-3-yl, —CH₂CH₂SCH₃, CH₂CO₂H, CH₂C(O)NH₂, CH₂CH₂COOH, CH₂CH₂C(O)NH₂, CH₂CH₂CH₂CH₂NH₂, —CH₂CH₂CH₂NHC(NH)NH₂, CH₂-imidazol-4-yl, CH₂OH, CH(OH)CH₃, CH₂((4'-OH)-Ph), CH₂SH, or lower cycloalkyl; or (viii) R^{3a} is CH₃, —CH₂CH₃, CH(CH₃)₂, CH₂CH(CH₃)₂, CH(CH₃)CH₂CH₃, CH₂Ph, CH₂-indol-3-yl, —CH₂CH₂SCH₃, CH₂CO₂H, CH₂C(O)NH₂, CH₂CH₂COOH, CH₂CH₂C(O)NH₂, CH₂CH₂CH₂CH₂NH₂, —CH₂CH₂CH₂NHC(NH)NH₂, CH₂-imidazol-4-yl, CH₂OH, CH(OH)CH₃, CH₂((4'-OH)-Ph), CH₂SH, or lower cycloalkyl and R^{3b} is H, where R^{3'} is independently hydrogen or alkyl, which includes, but is not limited to, C₁₋₂₀ alkyl, C₁₋₁₀ alkyl, or C₁₋₆ alkyl, R^{3''} is —OR' or —N(R^{3'})₂;
- (d) R⁴ is hydrogen, C₁₋₁₀ alkyl, C₁₋₁₀ alkyl optionally substituted with a lower alkyl, alkoxy or halogen, C₁₋₁₀ haloalkyl, C₃₋₁₀ cycloalkyl, cycloalkyl alkyl, cycloheteroalkyl, aminoacyl, di(lower alkyl)amino-lower alkyl, aryl, such as phenyl, heteroaryl, such as, pyridinyl, substituted aryl, or substituted heteroaryl;
- (e) R⁵ is H, a lower alkyl, CN, vinyl, O-(lower alkyl), hydroxyl lower alkyl, i.e., —(CH₂)_pOH, where p is 1-6, including hydroxylmethyl (CH₂OH), CH₂F, N₃, CH₂CN, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, alkyne (optionally substituted), or halogen, including F, Cl, Br, or I, with the provisos that when X is OH, base is cytosine and R⁶ is H, R⁵ cannot be N₃ and when X is OH, R⁶ is CH₃ or CH₂F and B is a purine base, R⁵ cannot be H;
- (f) R⁶ is H, CH₃, CH₂F, CHF₂, CF₃, F, or CN;
- (g) X is H, OH, F, OMe, halogen, NH₂, or N₃;
- (h) Y is OH, H, C₁₋₄ alkyl, C₂₋₄ alkenyl, C₂₋₄ alkynyl, vinyl, N₃, CN, Cl, Br, F, I, NO₂, OC(O)O(C₁₋₄ alkyl), OC(O)O(C₁₋₄ alkyl), OC(O)O(C₂₋₄ alkynyl), OC(O)O(C₂₋₄ alkenyl), OC₁₋₁₀ haloalkyl, O(aminoacyl), O(C₁₋₁₀ acyl), O(C₁₋₄ alkyl), O(C₂₋₄ alkenyl), S(C₁₋₄ acyl), S(C₁₋₄ alkyl), S(C₂₋₄ alkynyl), S(C₂₋₄ alkenyl), SO(C₁₋₄ acyl), SO(C₁₋₄ alkyl), SO(C₂₋₄ alkynyl), SO(C₂₋₄ alkenyl), SO₂(C₁₋₄ acyl), SO₂(C₁₋₄ alkyl), SO₂(C₂₋₄ alkynyl), SO₂(C₂₋₄ alkenyl), OS(O)₂(C₁₋₄ acyl), OS(O)₂(C₁₋₄ alkyl), OS(O)₂(C₂₋₄ alkenyl), NH₂, NH(C₁₋₄ alkyl), NH(C₂₋₄ alkenyl), NH(C₂₋₄ alkynyl), NH(C₁₋₄ acyl), N(C₁₋₄ alkyl)₂, N(C₁₋₁₈ acyl)₂, wherein alkyl, alkenyl, alkynyl and vinyl are optionally substituted by N₃, CN, one to three halogen (Cl, Br, F, I), NO₂, C(O)

40

- O(C₁₋₄ alkyl), C(O)O(C₁₋₄ alkyl), C(O)O(C₂₋₄ alkynyl), C(O)O(C₂₋₄ alkenyl), O(C₁₋₄ acyl), O(C₁₋₄ alkyl), O(C₂₋₄ alkenyl), S(C₁₋₄ acyl), S(C₁₋₄ alkyl), S(C₂₋₄ alkynyl), S(C₂₋₄ alkenyl), SO(C₁₋₄ acyl), SO(C₁₋₄ alkyl), SO(C₂₋₄ alkynyl), SO(C₂₋₄ alkenyl), SO₂(C₁₋₄ acyl), SO₂(C₁₋₄ alkyl), SO₂(C₂₋₄ alkynyl), SO₂(C₂₋₄ alkenyl), OS(O)₂(C₁₋₄ acyl), OS(O)₂(C₁₋₄ alkyl), OS(O)₂(C₂₋₄ alkenyl), NH₂, NH(C₁₋₄ alkyl), NH(C₂₋₄ alkenyl), NH(C₂₋₄ alkynyl), NH(C₁₋₄ acyl), N(C₁₋₄ alkyl)₂, N(C₁₋₄ acyl)₂;
- (i) R¹⁰ is NH₂ and R¹¹ is H, F, Br, I, OH, OR', NH₂, NHR', NR'₂, CO₂R', CONH₂, CONHR', CONR'₂, CH=CHCO₂H, or CH=CHCO₂R';
- wherein R' is a lower alkyl, a lower cycloalkyl, or C(O) (lower alkyl) or alternatively, in the instance of NR'₂, each R' comprise at least one C atom that are joined to form a heterocycle comprising at least two carbon atoms; and
- (j) Z is N or CR¹²; and
- R¹² is an H, halogen (including F, Cl, Br, I), OR', NH₂, NHR', NR'₂, NO₂, lower alkyl of C₁₋₆, CO₂R', CONH₂, CONHR', CONR'₂, CH=CHCO₂H, or CH=CHCO₂R'.
- An sixteenth aspect of the third embodiment is directed to a compound represented by formula I-6
- wherein
- (a) R¹ is hydrogen, methyl, ethyl, n-propyl, i-propyl, phenyl, p-tolyl, p-bromo-phenyl, p-chloro-phenyl, p-fluorophenyl;
- (b) R² is hydrogen or CH₃;
- (c) R^{3a} is H and R^{3b} is H, CH₃, CH(CH₃)₂, CH₂CH(CH₃)₂, CH(CH₃)CH₂CH₃, CH₂Ph, CH₂-indol-3-yl, —CH₂CH₂SCH₃, CH₂CO₂H, CH₂C(O)NH₂, CH₂CH₂COOH, CH₂CH₂C(O)NH₂, CH₂CH₂CH₂CH₂NH₂, —CH₂CH₂CH₂NHC(NH)NH₂, CH₂-imidazol-4-yl, CH₂OH, CH(OH)CH₃, CH₂((4'-OH)-Ph), CH₂SH, or lower cycloalkyl;
- (d) R⁴ is hydrogen, CH₃, Et, ^tPr, ⁿPr, ⁿBu, 2-butyl, ^tBu, benzyl, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, N-methyl-aziridin-2-yl, N-methyl-azetidin-3-yl, N-methyl-pyrrolidin-3-yl, N-methyl-pyrrolidin-4-yl, N-methyl-piperidin-4-yl, lower haloalkyl, or di(lower alkyl)amino-lower alkyl;
- (e) R⁵ is H, CN, CH₃, OCH₃, CH₂OH, CH₂F, halogen, including F, Cl, Br, or I, with the provisos that when X is OH, R⁶ is CH₃ or CH₂F, R⁵ cannot be H;
- (f) R⁶ is H, CH₃, CH₂F, CHF₂, CF₃, F, or CN;
- (g) X is H, OH, F, OCH₃, Cl, Br, I, NH₂, or N₃;
- (h) Y is OH, H, CH₃, vinyl, NH₂, N₃, CN, Cl, Br, F, I, OC(O)CH₃, OCH₃;
- (i) R¹⁰ is NH₂ and R¹¹ is H, F, Br, I, OH, OR', NH₂, NHR', NR'₂, CO₂R', CONH₂, CONHR', CONR'₂, CH=CHCO₂H, or CH=CHCO₂R';
- wherein R' is a lower alkyl, a lower cycloalkyl, or C(O) (lower alkyl) or alternatively, in the instance of NR'₂, each R' comprise at least one C atom that are joined to form a heterocycle comprising at least two carbon atoms; and
- (j) Z is N or CR¹²; and
- R¹² is an H, halogen (including F, Cl, Br, I), OR', NH₂, NHR', NR'₂, NO₂, lower alkyl of C₁₋₆, CO₂R', CONH₂, CONHR', CONR'₂, CH=CHCO₂H, or CH=CHCO₂R'.

41

A seventeenth aspect of the third embodiment is directed to a compound represented by formula I-6

wherein

- (a) R¹ is hydrogen, methyl, ethyl, n-propyl, i-propyl, phenyl, p-tolyl, p-bromo-phenyl, p-chloro-phenyl, p-fluorophenyl; 5
- (b) R² is hydrogen or CH₃;
- (c) R^{3a} is H and R^{3b} is H, CH₃, CH(CH₃)₂, CH₂CH(CH₃)₂, CH(CH₃)CH₂CH₃, CH₂Ph, or lower cycloalkyl;
- (d) R⁴ is hydrogen, CH₃, Et, ^tPr, ⁿPr, ⁿBu, 2-butyl, ^tBu, benzyl, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, N-methyl-aziridin-2-yl, N-methyl-azetidin-3-yl, N-methyl-pyrrolidin-3-yl, N-methyl-pyrrolidin-4-yl, N-methyl-piperidin-4-yl, lower haloalkyl, or di(lower alkyl)amino-lower alkyl; 15
- (e) R⁵ is H, CN, CH₂F, F, Cl, Br, or I, with the provisos that when X is OH, R⁶ is CH₃ or CH₂F, R⁵ cannot be H;
- (f) R⁶ is H, CH₃, CH₂F, CHF₂, CF₃, or F;
- (g) X is H, OH, F, OCH₃, F, Cl, Br, I, NH₂ or N₃;
- (h) Y is H, OH, CH₃, F, Cl, Br, I, NH₂ or N₃, OCH₃, or OC(O)CH₃;
- (i) R¹⁰ is NH₂ and R¹¹ is H, F, Br, I, OH, OR', NH₂, NHR', NR'₂, CO₂R', CONH₂, CONHR', CONR'₂, CH=CHCO₂H, or CH=CHCO₂R';

wherein R' is a lower alkyl, a lower cycloalkyl, or C(O) (lower alkyl) or alternatively, in the instance of NR'₂, each R' comprise at least one C atom that are joined to form a heterocycle comprising at least two carbon atoms; and

(j) Z is N or CR¹²; and

R¹² is an H, halogen (including F, Cl, Br, I), OR', NH₂, NHR', NR'₂, NO₂, lower alkyl of C₁-C₆, CO₂R', CONH₂, CONHR', CONR'₂, CH=CHCO₂H, or CH=CHCO₂R'.

An eighteenth aspect of the third embodiment is directed to a compound represented by formula I-6

wherein

- (a) R¹ is hydrogen, methyl, ethyl, n-propyl, i-propyl, phenyl, p-tolyl, p-bromo-phenyl, p-chloro-phenyl, p-fluorophenyl;
- (b) R² is hydrogen;
- (c) R^{3a} is H and R^{3b} is H, CH₃, CH(CH₃)₂, CH₂CH(CH₃)₂, CH(CH₃)CH₂CH₃, CH₂Ph, or lower cycloalkyl;
- (d) R⁴ is hydrogen, CH₃, Et, ^tPr, ⁿPr, ⁿBu, 2-butyl, ^tBu, benzyl, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, N-methyl-aziridin-2-yl, N-methyl-azetidin-3-yl, N-methyl-pyrrolidin-3-yl, N-methyl-pyrrolidin-4-yl, N-methyl-piperidin-4-yl, lower haloalkyl, or di(lower alkyl)amino-lower alkyl;
- (e) R⁵ is H, with the provisos that when X is OH, R⁶ is CH₃ or CH₂F, R⁵ cannot be H;
- (f) R⁶ is H, CH₃, CH₂F, CHF₂, CF₃, or F;
- (g) X is H, OH, OCH₃, F, NH₂ or N₃;
- (h) Y is OH, NH₂, OCH₃, or OC(O)CH₃;
- (i) R¹⁰ is NH₂ and R¹¹ is H, F, Br, I, OH, OR', NH₂, NHR', NR'₂, CO₂R', CONH₂, CONHR', CONR'₂, CH=CHCO₂H, or CH=CHCO₂R'; 55

wherein R' is a lower alkyl, a lower cycloalkyl, or C(O) (lower alkyl) or alternatively, in the instance of NR'₂, each R' comprise at least one C atom that are joined to form a heterocycle comprising at least two carbon atoms; and

(j) Z is N or CR¹²; and

R¹² is an H, halogen (including F, Cl, Br, I), OR', NH₂, NHR', NR'₂, NO₂, lower alkyl of C₁-C₆, CO₂R', CONH₂, CONHR', CONR'₂, CH=CHCO₂H, or CH=CHCO₂R'.

42

A nineteenth aspect of the third embodiment is directed to a compound represented by formula I-6

wherein

- (a) R¹ is hydrogen, methyl, phenyl, p-bromo-phenyl, p-chloro-phenyl, p-fluorophenyl;
- (b) R² is hydrogen;
- (c) R^{3a} is H and R^{3b} is H, CH₃, CH(CH₃)₂, CH₂CH(CH₃)₂, CH(CH₃)CH₂CH₃, CH₂Ph, or lower cycloalkyl;
- (d) R⁴ is hydrogen, CH₃, Et, ^tPr, ⁿPr, ⁿBu, 2-butyl, ^tBu, benzyl, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, N-methyl-aziridin-2-yl, N-methyl-azetidin-3-yl, N-methyl-pyrrolidin-3-yl, N-methyl-pyrrolidin-4-yl, N-methyl-piperidin-4-yl, lower haloalkyl, or di(lower alkyl)amino-lower alkyl;
- (e) R⁵ is H, with the provisos that when X is OH, R⁶ is CH₃ or CH₂F, R⁵ cannot be H;
- (f) R⁶ is H, CH₃, CH₂F, CHF₂, CF₃, or F;
- (g) X is H, OH, OCH₃, F, NH₂ or N₃;
- (h) Y is OH, NH₂, OCH₃, or OC(O)CH₃;
- (i) R¹⁰ is NH₂ and R¹¹ are independently H, F, Br, I, OH, OR', NH₂, NHR', NR'₂, CO₂R', CONH₂, CONHR', CONR'₂, CH=CHCO₂H, or CH=CHCO₂R';

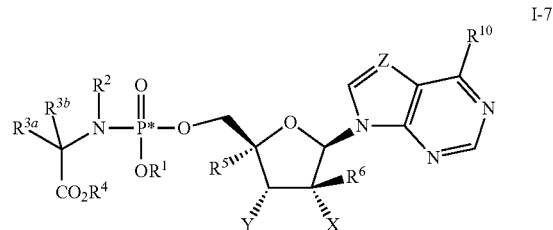
wherein R' is a lower alkyl, a lower cycloalkyl, or C(O) (lower alkyl) or alternatively, in the instance of NR'₂, each R' comprise at least one C atom that are joined to form a heterocycle comprising at least two carbon atoms; and

(j) Z is N or CR¹²; and

R¹² is an H, halogen (including F, Cl, Br, I), OR', NH₂, NHR', NR'₂, NO₂, lower alkyl of C₁-C₆, CO₂R', CONH₂, CONHR', CONR'₂, CH=CHCO₂H, or CH=CHCO₂R'.

A fourth embodiment of the invention is directed to a compound represented by formula I in which the base is a structure represented by formula c above, where R¹¹ is H and R², R^{3a}, R^{3b}, R⁴, R⁵, R⁶, X, and Y are defined in the Summary of the Invention section above.

A first aspect of the fourth embodiment is directed to a compound represented by formula I-7



wherein

- (a) R¹ is hydrogen, n-alkyl; branched alkyl; cycloalkyl; or aryl, which includes, but is not limited to, phenyl or naphthyl, where phenyl or naphthyl are optionally substituted with at least one of C₁₋₆ alkyl, C₂₋₆ alkenyl, C₂₋₆ alkynyl, C₁₋₆ alkoxy, F, Cl, Br, I, nitro, cyano, C₁₋₆ haloalkyl, —N(R¹)₂, C₁₋₆ acylamino, —NHSO₂C₁₋₆ alkyl, —SO₂N(R¹)₂, COR¹¹, and —SO₂C₁₋₆ alkyl; (R¹ is independently hydrogen or alkyl, which includes, but is not limited to, C₁₋₂₀ alkyl, C₁₋₁₀ alkyl, or C₁₋₆ alkyl, R¹¹ is —OR' or —N(R¹)₂);
- (b) R² is hydrogen or CH₃;
- (c) R^{3a} and R^{3b} are (i) independently selected from hydrogen, C₁₋₁₀ alkyl, cycloalkyl, —(CH₂)_c(NR³)₂, C₁₋₆ hydroxyalkyl, —CH₂SH, —(CH₂)₂S(O)_dMe,

43

—(CH₂)₃NHC(=NH)NH₂, (1H-indol-3-yl)methyl, (1H-imidazol-4-yl)methyl, —(CH₂)₆COR^{3a}, aryl and aryl C₁₋₃ alkyl, said aryl groups optionally substituted with a group selected from hydroxyl, C₁₋₁₀ alkyl, C₁₋₆ alkoxy, halogen, nitro and cyano; (ii) R^{3a} and R^{3b} both are C₁₋₆ alkyl; (iii) R^{3a} and R^{3b} together are (CH₂)_f so as to form a spiro ring; (iv) R^{3a} is hydrogen and R^{3b} and R² together are (CH₂)_n so as to form a cyclic ring that includes the adjoining N and C atoms (v) R^{3b} is hydrogen and R^{3a} and R² together are (CH₂)_n so as to form a cyclic ring that includes the adjoining N and C atoms, where c is 1 to 6, d is 0 to 2, e is 0 to 3, f is 2 to 5, n is 2 to 4, and where R³ is independently hydrogen or C₁₋₆ alkyl and R^{3'} is —OR' or —N(R^{3'})₂; (vi) R^{3a} is H and R^{3b} is H, CH₃, CH₂CH₃, CH(CH₃)₂, CH₂CH(CH₃)₂, CH(CH₃)CH₂CH₃, CH₂Ph, CH₂-indol-3-yl, —CH₂CH₂SCH₃, CH₂CO₂H, CH₂C(O)NH₂, CH₂CH₂COOH, CH₂CH₂C(O)NH₂, CH₂CH₂CH₂CH₂NH₂, —CH₂CH₂CH₂NHC(NH)NH₂, CH₂-imidazol-4-yl, CH₂OH, CH(OH)CH₃, CH₂((4'-OH)-Ph), CH₂SH, or lower cycloalkyl; or (viii) R^{3a} is CH₃, —CH₂CH₃, CH(CH₃)₂, CH₂CH(CH₃)₂, CH(CH₃)CH₂CH₃, CH₂Ph, CH₂-indol-3-yl, —CH₂CH₂SCH₃, CH₂CO₂H, CH₂C(O)NH₂, CH₂CH₂COOH, CH₂CH₂C(O)NH₂, CH₂CH₂CH₂CH₂NH₂, —CH₂CH₂CH₂NHC(NH)NH₂, CH₂-imidazol-4-yl, CH₂OH, CH(OH)CH₃, CH₂((4'-OH)-Ph), CH₂SH, or lower cycloalkyl and R^{3b} is H, where R^{3'} is independently hydrogen or alkyl, which includes, but is not limited to, C₁₋₂₀ alkyl, C₁₋₁₀ alkyl, or C₁₋₆ alkyl, R^{3''} is —OR' or —N(R^{3''})₂;

(d) R⁴ is hydrogen, C₁₋₁₀ alkyl, C₁₋₁₀ alkyl optionally substituted with a lower alkyl, alkoxy or halogen, C₁₋₁₀ haloalkyl, C₃₋₁₀ cycloalkyl, cycloalkyl alkyl, cycloheteroalkyl, aminoacyl, di(lower alkyl)amino-lower alkyl, aryl, such as phenyl, heteroaryl, such as, pyridinyl, substituted aryl, or substituted heteroaryl;

(e) R⁵ is H, a lower alkyl, CN, vinyl, O-(lower alkyl), hydroxyl lower alkyl, i.e., —(CH₂)_pOH, where p is 1-6, including hydroxylmethyl (CH₂OH), CH₂F, N₃, CH₂CN, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, alkyne (optionally substituted), or halogen, including F, Cl, Br, or I, with the provisos that when X is OH, base is cytosine and R⁶ is H, R⁵ cannot be N₃ and when X is OH, R⁶ is CH₃ or CH₂F and B is a purine base, R⁵ cannot be H;

(f) R⁶ is H, CH₃, CH₂F, CHF₂, CF₃, F, or CN;

(g) X is H, OH, F, OMe, halogen, NH₂, or N₃;

(h) Y is OH, H, C₁₋₄ alkyl, C₂₋₄ alkenyl, C₂₋₄ alkynyl, vinyl, N₃, CN, Cl, Br, F, I, NO₂, OC(O)O(C₁₋₄ alkyl), OC(O)O(C₁₋₄ alkyl), OC(O)O(C₂₋₄ alkynyl), OC(O)O(C₂₋₄ alkenyl), OC₁₋₁₀ haloalkyl, O(aminoacyl), O(C₁₋₁₀ acyl), O(C₁₋₄ alkyl), O(C₂₋₄ alkenyl), S(C₁₋₄ acyl), S(C₁₋₄ alkyl), S(C₂₋₄ alkynyl), S(C₂₋₄ alkenyl), SO(C₁₋₄ acyl), SO(C₁₋₄ alkyl), SO(C₂₋₄ alkynyl), SO(C₂₋₄ alkenyl), SO₂(C₁₋₄ acyl), SO₂(C₁₋₄ alkyl), SO₂(C₂₋₄ alkynyl), SO₂(C₂₋₄ alkenyl), OS(O)₂(C₁₋₄ acyl), OS(O)₂(C₁₋₄ alkyl), OS(O)₂(C₂₋₄ alkenyl), NH₂, NH(C₁₋₄ alkyl), NH(C₂₋₄ alkenyl), NH(C₂₋₄ alkynyl), NH(C₁₋₄ acyl), N(C₁₋₄ alkyl)₂, N(C₁₋₁₈ acyl)₂, wherein alkyl, alkynyl, alkenyl and vinyl are optionally substituted by N₃, CN, one to three halogen (Cl, Br, F, I), NO₂, C(O)O(C₁₋₄ alkyl), C(O)O(C₁₋₄ alkyl), C(O)O(C₂₋₄ alkynyl), C(O)O(C₂₋₄ alkenyl), O(C₁₋₄ acyl), O(C₁₋₄ alkyl), O(C₂₋₄ alkynyl), S(C₁₋₄ acyl), S(C₁₋₄ alkyl), S(C₂₋₄ alkynyl), S(C₂₋₄ alkenyl), SO(C₁₋₄ acyl), SO(C₁₋₄ alkyl), SO(C₂₋₄ alkynyl), SO(C₂₋₄ alkenyl), SO₂(C₁₋₄ acyl), SO₂(C₁₋₄ alkyl), SO₂(C₂₋₄ alkynyl), SO₂(C₂₋₄ alkenyl),

44

OS(O)₂(C₁₋₄ acyl), OS(O)₂(C₁₋₄ alkyl), OS(O)₂(C₂₋₄ alkenyl), NH₂, NH(C₁₋₄ alkyl), NH(C₂₋₄ alkenyl), NH(C₂₋₄ alkynyl), NH(C₁₋₄ acyl), N(C₁₋₄ alkyl)₂, N(C₁₋₄ acyl)₂;

(i) R¹⁰ is H, F, Cl, Br, I, OH, OR', SH, SR', NH₂, NHR', NR'₂, lower alkyl of C₁-C₆, halogenated (F, Cl, Br, I) lower alkyl of C₁-C₆, lower alkenyl of C₂-C₆, halogenated (F, Cl, Br, I) lower alkenyl of C₂-C₆, lower alkynyl of C₂-C₆ such as C≡CH, halogenated (F, Cl, Br, I) lower alkynyl of C₂-C₆, lower alkoxy of C₁-C₆, halogenated (F, Cl, Br, I) lower alkoxy of C₁-C₆, CO₂H, CO₂R', CONH₂, CONHR', CONR'₂, CH=CHCO₂H, or CH=CHCO₂R',

wherein R' is an optionally substituted alkyl, which includes, but is not limited to, an optionally substituted C₁₋₂₀ alkyl, an optionally substituted C₁₋₁₀ alkyl, an optionally substituted lower alkyl; an optionally substituted cycloalkyl; an optionally substituted alkynyl of C₂-C₆, an optionally substituted lower alkenyl of C₂-C₆, or optionally substituted acyl, which includes but is not limited to C(O) alkyl, C(O)(C₁₋₂₀ alkyl), C(O)(C₁₋₁₀ alkyl), or C(O)(lower alkyl) or alternatively, in the instance of NR'₂, each R' comprise at least one C atom that are joined to form a heterocycle comprising at least two carbon atoms; and

(j) Z is N or CR¹²; and

R¹² is H, halogen (including F, Cl, Br, I), OH, OR', SH, SR', NH₂, NHR', NR'₂, NO₂ lower alkyl of C₁-C₆, halogenated (F, Cl, Br, I) lower alkyl of C₁-C₆, lower alkenyl of C₂-C₆, halogenated (F, Cl, Br, I) lower alkenyl of C₂-C₆, lower alkynyl of C₂-C₆, halogenated (F, Cl, Br, I) lower alkynyl of C₂-C₆, lower alkoxy of C₁-C₆, halogenated (F, Cl, Br, I) lower alkoxy of C₁-C₆, CO₂H, CO₂R', CONH₂, CONHR', CONR'₂, CH=CHCO₂H, or CH=CHCO₂R'; with the proviso that R¹² is not a: (i) —C≡C—H, (ii) —C=CH₂, or (iii) —NO₂.

A second aspect of the fourth embodiment is directed to a compound represented by formula 1-7

wherein

(a) R¹ is hydrogen, methyl, ethyl, n-propyl, i-propyl, phenyl, p-tolyl, p-bromo-phenyl, p-chloro-phenyl, p-fluorophenyl;

(b) R² is hydrogen or CH₃;

(c) R^{3a} is H and R^{3b} is H, CH₃, CH(CH₃)₂, CH₂CH(CH₃)₂, CH(CH₃)CH₂CH₃, CH₂Ph, CH₂-indol-3-yl, —CH₂CH₂SCH₃, CH₂CO₂H, CH₂C(O)NH₂, CH₂CH₂COOH, CH₂CH₂C(O)NH₂, CH₂CH₂CH₂CH₂NH₂, —CH₂CH₂CH₂NHC(NH)NH₂, CH₂-imidazol-4-yl, CH₂OH, CH(OH)CH₃, CH₂((4'-OH)-Ph), CH₂SH, or lower cycloalkyl;

(d) R⁴ is hydrogen, CH₃, Et, ^tPr, ⁿBu, 2-butyl, ⁱBu, benzyl, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, N-methyl-aziridin-2-yl, N-methyl-azetid-3-yl, N-methyl-pyrrolidin-3-yl, N-methyl-pyrrolidin-4-yl, N-methyl-piperidin-4-yl, lower haloalkyl, or di(lower alkyl)amino-lower alkyl;

(e) R⁵ is H, CN, CH₃, OCH₃, CH₂OH, CH₂F, halogen, including F, Cl, Br, or I, with the provisos that when X is OH, R⁶ is CH₃ or CH₂F, R⁵ cannot be H.

(f) R⁶ is H, CH₃, CH₂F, CHF₂, CF₃, F, or CN;

(g) X is H, OH, F, OCH₃, halogen, NH₂, or N₃;

(h) Y is OH, H, CH₃, vinyl, NH₂, N₃, CN, Cl, Br, F, I, OC(O)CH₃, OCH₃;

(i) R¹⁰ is H, F, Br, I, OH, OR', NH₂, NHR', NR'₂, CO₂R', CONH₂, CONHR', CONR'₂, CH=CHCO₂H, or CH=CHCO₂R',

45

wherein R' is a lower alkyl, a lower cycloalkyl, or C(O) (lower alkyl) or alternatively, in the instance of NR'₂, each R' comprise at least one C atom that are joined to form a heterocycle comprising at least two carbon atoms; and

(j) Z is N or CR¹²; and

R¹² is H, halogen (including F, Cl, Br, I), OR', NH₂, NHR', NR'₂, NO₂, lower alkyl of C₁-C₆, CO₂R', CONH₂, CONHR', CONR'₂, CH=CHCO₂H, or CH=CHCO₂R'; with the proviso that R¹² is not a: (i) —C≡C—H, (ii) —C=CH₂, or (iii) —NO₂.

A third aspect of the third embodiment is directed to a compound represented by formula I-7

wherein

(a) R¹ is hydrogen, methyl, ethyl, n-propyl, i-propyl, phenyl, p-tolyl, p-bromo-phenyl, p-chloro-phenyl, p-fluorophenyl;

(b) R² is hydrogen or CH₃;

(c) R^{3a} is H and R^{3b} is H, CH₃, CH(CH₃)₂, CH₂CH(CH₃)₂, CH(CH₃)CH₂CH₃, CH₂Ph, or lower cycloalkyl;

(d) R⁴ is hydrogen, CH₃, Et, ^tPr, ⁿPr, ⁿBu, 2-butyl, ^tBu, benzyl, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, N-methyl-aziridin-2-yl, N-methyl-azetidin-3-yl, N-methyl-pyrrolidin-3-yl, N-methyl-pyrrolidin-4-yl, N-methyl-piperidin-4-yl, lower haloalkyl, or di(lower alkyl)amino-lower alkyl;

(e) R⁵ is H, CN, CH₂F, F, Cl, Br, or I; with the proviso that X is OH, R⁶ is CH₃ or CH₂F, R⁵ cannot be H;

(f) R⁶ is H, CH₃, CH₂F, CHF₂, CF₃, or F;

(g) X is H, OH, F, OCH₃, F, Cl, Br, I, NH₂ or N₃;

(h) Y is H, OH, CH₃, F, Cl, Br, I, NH₂ or N₃, OCH₃, or OC(O)CH₃;

(i) R¹⁰ is H, F, Br, I, OH, OR', NH₂, NHR', NR'₂, CO₂R', CONH₂, CONHR', CONR'₂, CH=CHCO₂H, or CH=CHCO₂R';

wherein R' is a lower alkyl, a lower cycloalkyl, or C(O) (lower alkyl) or alternatively, in the instance of NR'₂, each R' comprise at least one C atom that are joined to form a heterocycle comprising at least two carbon atoms; and

(j) Z is N or CR¹²; and

R¹² is H, halogen (including F, Cl, Br, I), OR', NH₂, NHR', NR'₂, NO₂, lower alkyl of C₁-C₆, CO₂R', CONH₂, CONHR', CONR'₂, CH=CHCO₂H, or CH=CHCO₂R'; with the proviso that R¹² is not a: (i) —C≡C—H, (ii) —C=CH₂, or (iii) —NO₂.

A fourth aspect of the fourth embodiment is directed to a compound represented by formula I-7

wherein

(a) R¹ is hydrogen, methyl, ethyl, n-propyl, i-propyl, phenyl, p-tolyl, p-bromo-phenyl, p-chloro-phenyl, p-fluorophenyl;

(b) R² is hydrogen;

(c) R^{3a} is H and R^{3b} is H, CH₃, CH(CH₃)₂, CH₂CH(CH₃)₂, CH(CH₃)CH₂CH₃, CH₂Ph, or lower cycloalkyl;

(d) R⁴ is hydrogen, CH₃, Et, ^tPr, ⁿPr, ⁿBu, 2-butyl, ^tBu, benzyl, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, N-methyl-aziridin-2-yl, N-methyl-azetidin-3-yl, N-methyl-pyrrolidin-3-yl, N-methyl-pyrrolidin-4-yl, N-methyl-piperidin-4-yl, lower haloalkyl, or di(lower alkyl)amino-lower alkyl;

(e) R⁵ is H, with the provisos that when X is OH, R⁶ is CH₃ or CH₂F, R⁵ cannot be H;

(f) R⁶ is H, CH₃, CH₂F, CHF₂, CF₃, or F;

(g) X is H, OH, OCH₃, F, NH₂ or N₃;

(h) Y is OH, NH₂, OCH₃, or OC(O)CH₃;

46

(i) R¹⁰ and R¹¹H, F, Br, I, OH, OR', NH₂, NHR', NR'₂, CO₂R', CONH₂, CONHR', CONR'₂, CH=CHCO₂H, or CH=CHCO₂R';

wherein R' is a lower alkyl, a lower cycloalkyl, or C(O) (lower alkyl) or alternatively, in the instance of NR'₂, each R' comprise at least one C atom that are joined to form a heterocycle comprising at least two carbon atoms; and

(j) Z is N or CR¹²; and

R¹² is an H, halogen (including F, Cl, Br, I), OR', NH₂, NHR', NR'₂, NO₂, lower alkyl of C₁-C₆, CO₂R', CONH₂, CONHR', CONR'₂, CH=CHCO₂H, or CH=CHCO₂R'; with the proviso that R¹² is not a: (i) —C≡C—H, (ii) —C=CH₂, or (iii) —NO₂.

A fifth aspect of the fourth embodiment is directed to a compound represented by formula I-7

wherein

(a) R¹ is hydrogen, methyl, phenyl, p-bromo-phenyl, p-chloro-phenyl, p-fluorophenyl;

(b) R² is hydrogen;

(c) R^{3a} is H and R^{3b} is H, CH₃, CH(CH₃)₂, CH₂CH(CH₃)₂, CH(CH₃)CH₂CH₃, CH₂Ph, or lower cycloalkyl;

(d) R⁴ is hydrogen, CH₃, Et, ^tPr, ⁿPr, ⁿBu, 2-butyl, ^tBu, benzyl, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, N-methyl-aziridin-2-yl, N-methyl-azetidin-3-yl, N-methyl-pyrrolidin-3-yl, N-methyl-pyrrolidin-4-yl, N-methyl-piperidin-4-yl, lower haloalkyl, or di(lower alkyl)amino-lower alkyl;

(e) R⁵ is H, with the provisos that when X is OH, R⁶ is CH₃ or CH₂F, R⁵ cannot be H;

(f) R⁶ is H, CH₃, CH₂F, CHF₂, CF₃, or F;

(g) X is H, OH, OCH₃, F, NH₂ or N₃;

(h) Y is OH, NH₂, OCH₃, or OC(O)CH₃;

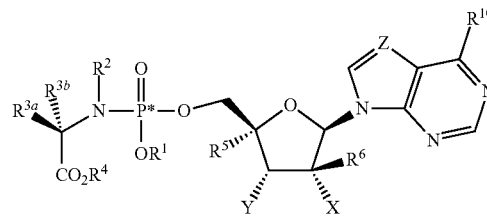
(i) R¹⁰ is H, F, Br, I, OH, OR', NH₂, NHR', NR'₂, CO₂R', CONH₂, CONHR', CONR'₂, CH=CHCO₂H, or CH=CHCO₂R';

wherein R' is a lower alkyl, a lower cycloalkyl, or C(O) (lower alkyl) or alternatively, in the instance of NR'₂, each R' comprise at least one C atom that are joined to form a heterocycle comprising at least two carbon atoms; and

(j) Z is N or CR¹²; and

R¹² is H, halogen (including F, Cl, Br, I), OR', NH₂, NHR', NR'₂, NO₂, lower alkyl of C₁-C₆, CO₂R', CONH₂, CONHR', CONR'₂, CH=CHCO₂H, or CH=CHCO₂R'.

A sixth aspect of the fourth embodiment is directed to a compound represented by formula I-8



wherein

(a) R¹ is hydrogen, n-alkyl; branched alkyl; cycloalkyl; or aryl, which includes, but is not limited to, phenyl or naphthyl, where phenyl or naphthyl are optionally substituted with at least one of C₁₋₆ alkyl, C₂₋₆ alkenyl, C₂₋₆ alkynyl, C₁₋₆ alkoxy, F, Cl, Br, I, nitro, cyano,

47

- C_{1-6} haloalkyl, $-N(R^1)_2$, C_{1-6} acylamino, $-NHSO_2C_{1-6}$ alkyl, $-SO_2N(R^1)_2$, $COR^{1'}$, and $-SO_2C_{1-6}$ alkyl; (R^1 is independently hydrogen or alkyl, which includes, but is not limited to, C_{1-20} alkyl, C_{1-10} alkyl, or C_{1-6} alkyl, R^1 is $-OR'$ or $-N(R^1)_2$);
- (b) R^2 is hydrogen or CH_3 ;
- (c) R^{3a} and R^{3b} are (i) independently selected from hydrogen, C_{1-10} alkyl, cycloalkyl, $-(CH_2)_c(NR^3)_2$, C_{1-6} hydroxyalkyl, $-CH_2SH$, $-(CH_2)_2S(O)_dMe$, $-(CH_2)_3NHC(=NH)NH_2$, (1H-indol-3-yl)methyl, (1H-imidazol-4-yl)methyl, $-(CH_2)_eCOR^{3'}$, aryl and aryl C_{1-3} alkyl, said aryl groups optionally substituted with a group selected from hydroxyl, C_{1-10} alkyl, C_{1-6} alkoxy, halogen, nitro and cyano; (ii) R^{3a} and R^{3b} both are C_{1-6} alkyl; (iii) R^{3a} and R^{3b} together are $(CH_2)_f$ so as to form a spiro ring; (iv) R^{3a} is hydrogen and R^{3b} and R^2 together are $(CH_2)_n$ so as to form a cyclic ring that includes the adjoining N and C atoms (v) R^{3b} is hydrogen and R^{3a} and R^2 together are $(CH_2)_n$ so as to form a cyclic ring that includes the adjoining N and C atoms, where c is 1 to 6, d is 0 to 2, e is 0 to 3, f is 2 to 5, n is 2 to 4, and where R^3 is independently hydrogen or C_{1-6} alkyl and $R^{3'}$ is $-OR'$ or $-N(R^3)_2$; (vi) R^{3a} is H and R^{3b} is H, CH_3 , CH_2CH_3 , $CH(CH_3)_2$, $CH_2CH(CH_3)_2$, $CH(CH_3)CH_2CH_3$, CH_2Ph , CH_2 -indol-3-yl, $-CH_2CH_2SCH_3$, CH_2CO_2H , $CH_2C(O)NH_2$, CH_2CH_2COOH , $CH_2CH_2C(O)NH_2$, $CH_2CH_2CH_2CH_2NH_2$, $-CH_2CH_2CH_2NHC(NH)NH_2$, CH_2 -imidazol-4-yl, CH_2OH , $CH(OH)CH_3$, $CH_2((4'-OH)-Ph)$, CH_2SH , or lower cycloalkyl; or (viii) R^{3a} is CH_3 , $-CH_2CH_3$, $CH(CH_3)_2$, $CH_2CH(CH_3)_2$, $CH(CH_3)CH_2CH_3$, CH_2Ph , CH_2 -indol-3-yl, $-CH_2CH_2SCH_3$, CH_2CO_2H , $CH_2C(O)NH_2$, CH_2CH_2COOH , $CH_2CH_2C(O)NH_2$, $CH_2CH_2CH_2CH_2NH_2$, $-CH_2CH_2CH_2NHC(NH)NH_2$, CH_2 -imidazol-4-yl, CH_2OH , $CH(OH)CH_3$, $CH_2((4'-OH)-Ph)$, CH_2SH , or lower cycloalkyl and R^{3b} is H, where R^3 is independently hydrogen or alkyl, which includes, but is not limited to, C_{1-20} alkyl, C_{1-10} alkyl, or C_{1-6} alkyl, $R^{3'}$ is $-OR'$ or $-N(R^3)_2$);
- (d) R^4 is hydrogen, C_{1-40} alkyl, C_{1-10} alkyl optionally substituted with a lower alkyl, alkoxy or halogen, C_{1-10} haloalkyl, C_{3-10} cycloalkyl, cycloalkyl alkyl, cycloheteroalkyl, aminoacyl, di(lower alkyl)amino-lower alkyl, aryl, such as phenyl, heteroaryl, such as, pyridinyl, substituted aryl, or substituted heteroaryl;
- (e) R^5 is H, a lower alkyl, CN, vinyl, O-(lower alkyl), hydroxyl lower alkyl, i.e., $-(CH_2)_pOH$, where p is 1-6, including hydroxyl methyl (CH_2OH), CH_2F , N_3 , CH_2CN , CH_2NH_2 , CH_2NHCH_3 , $CH_2N(CH_3)_2$, alkyne (optionally substituted), or halogen, including F, Cl, Br, or I, with the provisos that when X is OH, base is cytosine and R^6 is H, R^5 cannot be N_3 and when X is OH, R^6 is CH_3 or CH_2F and B is a purine base, R^5 cannot be H;
- (f) R^6 is H, CH_3 , CH_2F , CHF_2 , CF_3 , F, or CN;
- (g) X is H, OH, F, OMe, halogen, NH_2 , or N_3 ;
- (h) Y is OH, H, C_{1-4} alkyl, C_{2-4} alkenyl, C_{2-4} alkynyl, vinyl, N_3 , CN, Cl, Br, F, I, NO_2 , $OC(O)O(C_{1-4}$ alkyl), $OC(O)O(C_{2-4}$ alkynyl), $OC(O)O(C_{2-4}$ alkenyl), OC_{1-10} haloalkyl, O(aminoacyl), O(C_{1-10} acyl), O(C_{1-4} alkyl), O(C_{2-4} alkenyl), S(C_{1-4} acyl), S(C_{1-4} alkyl), S(C_{2-4} alkynyl), S(C_{2-4} alkenyl), SO(C_{1-4} acyl), SO(C_{1-4} alkyl), SO(C_{2-4} alkynyl), SO(C_{2-4} alkenyl), $SO_2(C_{1-4}$ acyl), $SO_2(C_{1-4}$ alkyl), $SO_2(C_{2-4}$ alkynyl), $SO_2(C_{2-4}$ alkenyl), OS(O) $_2(C_{1-4}$ acyl), OS(O) $_2(C_{1-4}$ alkyl), OS(O) $_2(C_{2-4}$ alkenyl), NH_2 , NH(C_{1-4} alkyl), NH(C_{2-4} alkenyl), NH(C_{2-4} alkynyl), NH(C_{1-4} acyl), N(C_{1-4} alkyl),

48

- N(C_{1-18} acyl) $_2$, wherein alkyl, alkynyl, alkenyl and vinyl are optionally substituted by N_3 , CN, one to three halogen (Cl, Br, F, I), NO_2 , C(O)O(C_{1-4} alkyl), C(O)O(C_{1-4} alkyl), C(O)O(C_{2-4} alkynyl), C(O)O(C_{2-4} alkenyl), O(C_{1-4} acyl), O(C_{1-4} alkyl), O(C_{2-4} alkenyl), S(C_{1-4} acyl), S(C_{1-4} alkyl), S(C_{2-4} alkynyl), S(C_{2-4} alkenyl), SO(C_{1-4} acyl), SO(C_{1-4} alkyl), SO(C_{2-4} alkynyl), SO(C_{2-4} alkenyl), $SO_2(C_{1-4}$ acyl), $SO_2(C_{1-4}$ alkyl), $SO_2(C_{2-4}$ alkynyl), $SO_2(C_{2-4}$ alkenyl), OS(O) $_2(C_{1-4}$ acyl), OS(O) $_2(C_{1-4}$ alkyl), OS(O) $_2(C_{2-4}$ alkenyl), NH_2 , NH(C_{1-4} alkyl), NH(C_{2-4} alkenyl), NH(C_{2-4} alkynyl), NH(C_{1-4} acyl), N(C_{1-4} alkyl) $_2$, N(C_{1-4} acyl) $_2$;
- (i) R^{10} is H, F, Br, I, OH, OR', NH $_2$, NHR', NR' $_2$, CO $_2$ R', CONH $_2$, CONHR', CONR' $_2$, CH=CHCO $_2$ H, or CH=CHCO $_2$ R', wherein R' is a lower alkyl, a lower cycloalkyl, or C(O) (lower alkyl) or alternatively, in the instance of NR' $_2$, each R' comprise at least one C atom that are joined to form a heterocycle comprising at least two carbon atoms; and
- (j) Z is N or CR 12 ; and R^{12} is H, halogen (including F, Cl, Br, I), OR', NH $_2$, NHR', NR' $_2$, NO $_2$, lower alkyl of C_1 - C_6 , CO $_2$ R', CONH $_2$, CONHR', CONR' $_2$, CH=CHCO $_2$ H, or CH=CHCO $_2$ R'; with the proviso that when base is represented by the structure c with R 11 being hydrogen, R 12 is not a: (i) $-C\equiv C-H$, (ii) $-C=CH_2$, or (iii) $-NO_2$.
- A seventh aspect of the fourth embodiment is directed to a compound represented by formula 1-8 wherein
- (a) R^1 is hydrogen, methyl, ethyl, n-propyl, i-propyl, phenyl, p-tolyl, p-bromo-phenyl, p-chloro-phenyl, p-fluorophenyl;
- (b) R^2 is hydrogen or CH_3 ;
- (c) R^{3a} is H and R^{3b} is H, CH_3 , $CH(CH_3)_2$, $CH_2CH(CH_3)_2$, $CH(CH_3)CH_2CH_3$, CH_2Ph , CH_2 -indol-3-yl, $-CH_2CH_2SCH_3$, CH_2CO_2H , $CH_2C(O)NH_2$, CH_2CH_2COOH , $CH_2CH_2C(O)NH_2$, $CH_2CH_2CH_2CH_2NH_2$, $-CH_2CH_2CH_2NHC(NH)NH_2$, CH_2 -imidazol-4-yl, CH_2OH , $CH(OH)CH_3$, $CH_2((4'-OH)-Ph)$, CH_2SH , or lower cycloalkyl;
- (d) R^4 is hydrogen, CH_3 , Et, 'Pr, "Pr, "Bu, 2-butyl, 'Bu, benzyl, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, N-methyl-aziridin-2-yl, N-methyl-azetidion-3-yl, N-methyl-pyrrolidin-3-yl, N-methyl-pyrrolidin-4-yl, N-methyl-piperidin-4-yl, lower haloalkyl, or di(lower alkyl)amino-lower alkyl; (e) R^5 is H, CN, CH_3 , OCH $_3$, CH_2OH , CH_2F , halogen, including F, Cl, Br, or I, with the provisos that when X is OH, R^6 is CH_3 or CH_2F , R^5 cannot be H;
- (f) R^6 is H, CH_3 , CH_2F , CHF_2 , CF_3 , F, or CN; (g) X is H, OH, F, OCH $_3$, halogen, NH_2 , or N_3 ;
- (h) Y is OH, H, CH_3 , vinyl, NH_2 , N_3 , CN, Cl, Br, F, I, OC(O)CH $_3$, OCH $_3$;
- (i) R^{10} is H, F, Br, I, OH, OR', NH $_2$, NHR', NR' $_2$, CO $_2$ R', CONH $_2$, CONHR', CONR' $_2$, CH=CHCO $_2$ H, or CH=CHCO $_2$ R', wherein R' is a lower alkyl, a lower cycloalkyl, or C(O) (lower alkyl) or alternatively, in the instance of NR' $_2$, each R' comprise at least one C atom that are joined to form a heterocycle comprising at least two carbon atoms; and
- (j) Z is N or CR 12 ; and R^{12} is an H, halogen (including F, Cl, Br, I), OR', NH $_2$, NHR', NR' $_2$, NO $_2$, lower alkyl of C_1 - C_6 , CO $_2$ R', CONH $_2$, CONHR', CONR' $_2$, CH=CHCO $_2$ H, or

49

CH=CHCO₂R¹; with the proviso that R¹² is not a: (i) —C=C—H, (ii) —C=CH₂, or (iii) —NO₂.

An eighth aspect of the fourth embodiment is directed to a compound represented by formula I-8 wherein

(a) R¹ is hydrogen, methyl, ethyl, n-propyl, i-propyl, phenyl, p-tolyl, p-bromo-phenyl, p-chloro-phenyl, p-fluorophenyl;

(b) R² is hydrogen or CH₃;

(c) R^{3a} is H and R^{3b} is H, CH₃, CH(CH₃)₂, CH₂CH(CH₃)₂, CH(CH₃)CH₂CH₃, CH₂Ph, or lower cycloalkyl;

(d) R⁴ is hydrogen, CH₃, Et, ^tPr, ⁿPr, ⁿBu, 2-butyl, ^tBu, benzyl, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, N-methyl-aziridin-2-yl, N-methyl-azetidin-3-yl, N-methyl-pyrrolidin-3-yl, N-methyl-pyrrolidin-4-yl, N-methyl-piperidin-4-yl, lower haloalkyl, or di(lower alkyl)amino-lower alkyl;

(e) R⁵ is H, CN, CH₂F, F, Cl, Br, or I, with the provisos that when X is OH, R⁶ is CH₃ or CH₂F, R⁵ cannot be H;

(f) R⁶ is H, CH₃, CH₂F, CHF₂, CF₃, or F;

(g) X is H, OH, F, OCH₃, F, Cl, Br, I, NH₂ or N₃;

(h) Y is H, OH, CH₃, F, Cl, Br, I, NH₂ or N₃, OCH₃, or OC(O)CH₃;

(i) R¹⁰ is H, F, Br, I, OH, OR', NH₂, NHR', NR'₂, CO₂R', CONH₂, CONHR', CONR'₂, CH=CHCO₂H, or CH=CHCO₂R',

wherein R' is a lower alkyl, a lower cycloalkyl, or C(O) (lower alkyl) or alternatively, in the instance of NR'₂, each R' comprise at least one C atom that are joined to form a heterocycle comprising at least two carbon atoms; and

(j) Z is N or CR¹²; and

R¹² is an H, halogen (including F, Cl, Br, I), OR', NH₂, NHR', NR'₂, NO₂, lower alkyl of C₁-C₆, CO₂R', CONH₂, CONHR', CONR'₂, CH=CHCO₂H, or CH=CHCO₂R'; with the proviso that R¹² is not a: (i) —C=C—H, (ii) —C=CH₂, or (iii) —NO₂.

A ninth aspect of the fourth embodiment is directed to a compound represented by formula I-8 wherein

(a) R¹ is hydrogen, methyl, ethyl, n-propyl, i-propyl, phenyl, p-tolyl, p-bromo-phenyl, p-chloro-phenyl, p-fluorophenyl;

(b) R² is hydrogen;

(c) R^{3a} is H and R^{3b} is H, CH₃, CH(CH₃)₂, CH₂CH(CH₃)₂, CH(CH₃)CH₂CH₃, CH₂Ph, or lower cycloalkyl;

(d) R⁴ is hydrogen, CH₃, Et, ^tPr, ⁿPr, ⁿBu, 2-butyl, ^tBu, benzyl, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, N-methyl-aziridin-2-yl, N-methyl-azetidin-3-yl, N-methyl-pyrrolidin-3-yl, N-methyl-pyrrolidin-4-yl, N-methyl-piperidin-4-yl, lower haloalkyl, or di(lower alkyl)amino-lower alkyl;

(e) R⁵ is H, with the provisos that when X is OH, R⁶ is CH₃ or CH₂F, R⁵ cannot be H;

(f) R⁶ is H, CH₃, CH₂F, CHF₂, CF₃, or F;

(g) X is H, OH, OCH₃, F, NH₂ or N₃;

(h) Y is OH, NH₂, OCH₃, or OC(O)CH₃;

(i) R¹⁰ is H, F, Br, I, OH, OR', NH₂, NHR', NR'₂, CO₂R', CONH₂, CONHR', CONR'₂, CH=CHCO₂H, or CH=CHCO₂R',

wherein R' is a lower alkyl, a lower cycloalkyl, or C(O) (lower alkyl) or alternatively, in the instance of NR'₂, each R' comprise at least one C atom that are joined to form a heterocycle comprising at least two carbon atoms; and

(j) Z is N or CR¹²; and

50

R¹² is an H, halogen (including F, Cl, Br, I), OR', NH₂, NHR', NR'₂, NO₂, lower alkyl of C₁-C₆, CO₂R', CONH₂, CONHR', CONR'₂, CH=CHCO₂H, or CH=CHCO₂R'; with the proviso that R¹² is not a: (i) —C=C—H, (ii) —C=CH₂, or (iii) —NO₂.

A tenth aspect of the fourth embodiment is directed to a compound represented by formula I-8 wherein

(a) R¹ is hydrogen, methyl, phenyl, p-bromo-phenyl, p-chloro-phenyl, p-fluorophenyl;

(b) R² is hydrogen;

(c) R^{3a} is H and R^{3b} is H, CH₃, CH(CH₃)₂, CH₂CH(CH₃)₂, CH(CH₃)CH₂CH₃, CH₂Ph, or lower cycloalkyl;

(d) R⁴ is hydrogen, CH₃, Et, ^tPr, ⁿPr, ⁿBu, 2-butyl, ^tBu, benzyl, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, N-methyl-aziridin-2-yl, N-methyl-azetidin-3-yl, N-methyl-pyrrolidin-3-yl, N-methyl-pyrrolidin-4-yl, N-methyl-piperidin-4-yl, lower haloalkyl, or di(lower alkyl)amino-lower alkyl;

(e) R⁵ is H, with the provisos that when X is OH, R⁶ is CH₃ or CH₂F, R⁵ cannot be H;

(f) R⁶ is H, CH₃, CH₂F, CHF₂, CF₃, or F;

(g) X is H, OH, OCH₃, F, NH₂ or N₃;

(h) Y is OH, NH₂, OCH₃, or OC(O)CH₃;

(i) R¹⁰ is H, F, Br, I, OH, OR', NH₂, NHR', NR'₂, CO₂R', CONH₂, CONHR', CONR'₂, CH=CHCO₂H, or CH=CHCO₂R',

wherein R' is a lower alkyl, a lower cycloalkyl, or C(O) (lower alkyl) or alternatively, in the instance of NR'₂, each R' comprise at least one C atom that are joined to form a heterocycle comprising at least two carbon atoms; and

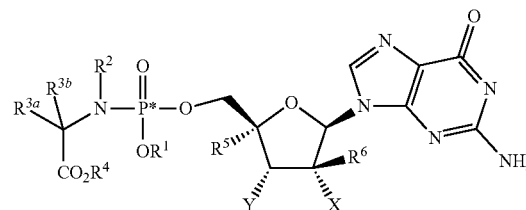
(j) Z is N or CR¹²; and

R¹² is an H, halogen (including F, Cl, Br, I), OR', NH₂, NHR', NR'₂, NO₂, lower alkyl of C₁-C₆, CO₂R', CONH₂, CONHR', CONR'₂, CH=CHCO₂H, or CH=CHCO₂R'; with the proviso that R¹² is not a: (i) —C=C—H, (ii) —C=CH₂, or (iii) —NO₂.

A fifth embodiment of the invention is directed to a compound represented by formula I in which the base is a structure represented by formula d above, wherein R¹, R², R^{3a}, R^{3b}, R⁴, R⁵, R⁶, X, and Y are defined in the Summary of the Invention section above.

The first aspect of the fifth embodiment is directed to a compound represented by formula I-9

I-9



wherein

(a) R¹ is hydrogen, n-alkyl; branched alkyl; cycloalkyl; or aryl, which includes, but is not limited to, phenyl or naphthyl, where phenyl or naphthyl are optionally substituted with at least one of C₁₋₆ alkyl, C₂₋₆ alkenyl, C₂₋₆ alkynyl, C₁₋₆ alkoxy, F, Cl, Br, I, nitro, cyano, C₁₋₆ haloalkyl, —N(R¹)₂, C₁₋₆ acylamino, —NHSO₂C₁₋₆ alkyl, —SO₂N(R¹)₂, COR¹, and —SO₂C₁₋₆ alkyl; (R¹

51

- is independently hydrogen or alkyl, which includes, but is not limited to, C₁₋₂₀ alkyl, C₁₋₁₀ alkyl, or C₁₋₆ alkyl, R¹ is —OR' or —N(R¹)₂;
- (b) R² is hydrogen or CH₃;
- (c) R^{3a} and R^{3b} are (i) independently selected from hydrogen, C₁₋₁₀ alkyl, cycloalkyl, —(CH₂)_c(NR³)₂, C₁₋₆ hydroxyalkyl, —CH₂SH, —(CH₂)_dS(O)_eMe, —(CH₂)₃NHC(=NH)NH₂, (1H-indol-3-yl)methyl, (1H-imidazol-4-yl)methyl, —(CH₂)_eCOR^{3'}, aryl and aryl C₁₋₃ alkyl, said aryl groups optionally substituted with a group selected from hydroxyl, C₁₋₁₀ alkyl, C₁₋₆ alkoxy, halogen, nitro and cyano; (ii) R^{3a} and R^{3b} both are C₁₋₆ alkyl; (iii) R^{3a} and R^{3b} together are (CH₂)_f so as to form a spiro ring;
- (iv) R^{3a} is hydrogen and R^{3b} and R² together are (CH₂)_n so as to form a cyclic ring that includes the adjoining N and C atoms (v) R^{3b} is hydrogen and R^{3a} and R² together are (CH₂)_n so as to form a cyclic ring that includes the adjoining N and C atoms, where c is 1 to 6, d is 0 to 2, e is 0 to 3, f is 2 to 5, n is 2 to 4, and where R^{3'} is independently hydrogen or C₁₋₆ alkyl and R^{3''} is —OR' or —N(R³)₂; (vi) R^{3a} is H and R^{3b} is H, CH₃, CH₂CH₃, CH(CH₃)₂, CH₂CH(CH₃)₂, CH(CH₃)CH₂CH₃, CH₂Ph, CH₂-indol-3-yl, —CH₂CH₂SCH₃, CH₂CO₂H, CH₂C(O)NH₂, CH₂CH₂COOH, CH₂CH₂C(O)NH₂, CH₂CH₂CH₂CH₂NH₂, —CH₂CH₂CH₂NHC(NH)NH₂, CH₂-imidazol-4-yl, CH₂OH, CH(OH)CH₃, CH₂((4'-OH)-Ph), CH₂SH, or lower cycloalkyl; or (viii) R^{3a} is CH₃, —CH₂CH₃, CH(CH₃)₂, CH₂CH(CH₃)₂, CH(CH₃)CH₂CH₃, CH₂Ph, CH₂-indol-3-yl, —CH₂CH₂SCH₃, CH₂CO₂H, CH₂C(O)NH₂, CH₂CH₂COOH, CH₂CH₂C(O)NH₂, CH₂CH₂CH₂CH₂NH₂, —CH₂CH₂CH₂NHC(NH)NH₂, CH₂-imidazol-4-yl, CH₂OH, CH(OH)CH₃, CH₂((4'-OH)-Ph), CH₂SH, or lower cycloalkyl and R^{3b} is H, where R^{3'} is independently hydrogen or alkyl, which includes, but is not limited to, C₁₋₂₀ alkyl, C₁₋₁₀ alkyl, or C₁₋₆ alkyl, R^{3''} is —OR' or —N(R³)₂;
- (d) R⁴ is hydrogen, C₁₋₁₀ alkyl, C₁₋₁₀ alkyl optionally substituted with a lower alkyl, alkoxy or halogen, C₁₋₁₀ haloalkyl, C₃₋₁₀ cycloalkyl, cycloalkyl alkyl, cycloheteroalkyl, aminoacyl, di(lower alkyl)amino-lower alkyl, aryl, such as phenyl, heteroaryl, such as, pyridinyl, substituted aryl, or substituted heteroaryl;
- (e) R⁵ is H, a lower alkyl, CN, vinyl, O-(lower alkyl), hydroxyl lower alkyl, i.e., —(CH₂)_pOH, where p is 1-6, including hydroxyl methyl (CH₂OH), CH₂F, N₃, CH₂CN, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, alkyne (optionally substituted), or halogen, including F, Cl, Br, or I, with the provisos that when X is OH, base is cytosine and R⁶ is H, R⁵ cannot be N₃ and when X is OH, R⁶ is CH₃ or CH₂F and B is a purine base, R⁵ cannot be H;
- (f) R⁶ is H, CH₃, CH₂F, CHF₂, CF₃, F, or CN;
- (g) X is H, OH, F, OMe, halogen, NH₂, or N₃;
- (h) Y is OH, H, C₁₋₄ alkyl, C₂₋₄ alkenyl, C₂₋₄ alkynyl, vinyl, N₃, CN, Cl, Br, F, I, NO₂, OC(O)O(C₁₋₄ alkyl), OC(O)O(C₁₋₄ alkyl), OC(O)O(C₂₋₄ alkenyl), OC(O)O(C₂₋₄ alkynyl), OC(O)O(C₂₋₄ alkenyl), OC₁₋₁₀ haloalkyl, O(aminoacyl), O(C₁₋₁₀ acyl), O(C₁₋₄ alkyl), O(C₂₋₄ alkenyl), S(C₁₋₄ acyl), S(C₁₋₄ alkyl), S(C₂₋₄ alkynyl), S(C₂₋₄ alkenyl), SO(C₁₋₄ acyl), SO(C₁₋₄ alkyl), SO(C₂₋₄ alkynyl), SO(C₂₋₄ alkenyl), SO₂(C₁₋₄ acyl), SO₂(C₁₋₄ alkyl), SO₂(C₂₋₄ alkynyl), SO₂(C₂₋₄ alkenyl), OS(O)₂(C₁₋₄ acyl), OS(O)₂(C₁₋₄ alkyl), OS(O)₂(C₁₋₄ alkyl), OS(O)₂(C₂₋₄ alkenyl), NH₂, NH(C₁₋₄ alkyl), NH(C₂₋₄ alkenyl), NH(C₂₋₄ alkynyl), NH(C₁₋₄ acyl), N(C₁₋₄ alkyl)₂, N(C₁₋₁₈ acyl)₂, wherein alkyl, alkynyl, alkenyl and vinyl are optionally substituted by

52

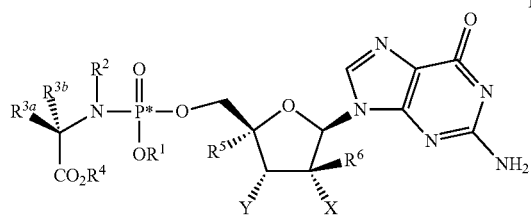
- N₃, CN, one to three halogen (Cl, Br, F, I), NO₂, C(O)O(C₁₋₄ alkyl), C(O)O(C₁₋₄ alkyl), C(O)O(C₂₋₄ alkynyl), C(O)O(C₂₋₄ alkenyl), O(C₁₋₄ acyl), O(C₁₋₄ alkyl), O(C₂₋₄ alkenyl), S(C₁₋₄ acyl), S(C₁₋₄ alkyl), S(C₂₋₄ alkynyl), S(C₂₋₄ alkenyl), SO(C₁₋₄ acyl), SO(C₁₋₄ alkyl), SO(C₂₋₄ alkynyl), SO(C₂₋₄ alkenyl), SO₂(C₁₋₄ acyl), SO₂(C₁₋₄ alkyl), SO₂(C₂₋₄ alkynyl), SO₂(C₂₋₄ alkenyl), OS(O)₂(C₁₋₄ acyl), OS(O)₂(C₁₋₄ alkyl), OS(O)₂(C₂₋₄ alkenyl), NH₂, NH(C₁₋₄ alkyl), NH(C₂₋₄ alkenyl), NH(C₂₋₄ alkynyl), NH(C₁₋₄ acyl), N(C₁₋₄ alkyl)₂.
- A second aspect of the fifth embodiment is directed to a compound represented by formula I-9
- wherein
- (a) R¹ is hydrogen, methyl, ethyl, n-propyl, i-propyl, phenyl, p-tolyl, p-bromo-phenyl, p-chloro-phenyl, p-fluorophenyl;
- (b) R² is hydrogen or CH₃;
- (c) R^{3a} is H and R^{3b} is H, CH₃, CH(CH₃)₂, CH₂CH(CH₃)₂, CH(CH₃)CH₂CH₃, CH₂Ph, CH₂-indol-3-yl, —CH₂CH₂SCH₃, CH₂CO₂H, CH₂C(O)NH₂, CH₂CH₂COOH, CH₂CH₂C(O)NH₂, CH₂CH₂CH₂CH₂NH₂, —CH₂CH₂CH₂NHC(NH)NH₂, CH₂-imidazol-4-yl, CH₂OH, CH(OH)CH₃, CH₂((4'-OH)-Ph), CH₂SH, or lower cycloalkyl;
- (d) R⁴ is hydrogen, CH₃, Et, ^tPr, ⁿPr, ⁿBu, 2-butyl, ^tBu, benzyl, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, N-methyl-aziridin-2-yl, N-methyl-azetidin-3-yl, N-methyl-pyrrolidin-3-yl, N-methyl-pyrrolidin-4-yl, N-methyl-piperidin-4-yl, lower haloalkyl, or di(lower alkyl)amino-lower alkyl;
- (e) R⁵ is H, CN, CH₃, OCH₃, CH₂OH, CH₂F, halogen, including F, Cl, Br, or I, with the provisos that when X is OH, R⁶ is CH₃ or CH₂F, R⁵ cannot be H.
- (f) R⁶ is H, CH₃, CH₂F, CHF₂, CF₃, F, or CN;
- (g) X is H, OH, F, OCH₃, halogen, NH₂, or N₃;
- (h) Y is OH, H, CH₃, vinyl, NH₂, N₃, CN, Cl, Br, F, I, OC(O)CH₃, OCH₃;
- A third aspect of the fifth embodiment is directed to a compound represented by formula I-9
- wherein
- (a) R¹ is hydrogen, methyl, ethyl, n-propyl, i-propyl, phenyl, p-tolyl, p-bromo-phenyl, p-chloro-phenyl, p-fluorophenyl;
- (b) R² is hydrogen or CH₃;
- (c) R^{3a} is H and R^{3b} is H, CH₃, CH(CH₃)₂, CH₂CH(CH₃)₂, CH(CH₃)CH₂CH₃, CH₂Ph, or lower cycloalkyl;
- (d) R⁴ is hydrogen, CH₃, Et, ^tPr, ⁿPr, ⁿBu, 2-butyl, ^tBu, benzyl, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, N-methyl-aziridin-2-yl, N-methyl-azetidin-3-yl, N-methyl-pyrrolidin-3-yl, N-methyl-pyrrolidin-4-yl, N-methyl-piperidin-4-yl, lower haloalkyl, or di(lower alkyl)amino-lower alkyl;
- (e) R⁵ is H, CN, CH₂F, F, Cl, Br, or I; with the proviso that X is OH, R⁶ is CH₃ or CH₂F, R⁵ cannot be H;
- (f) R⁶ is H, CH₃, CH₂F, CHF₂, CF₃, or F;
- (g) X is H, OH, F, OCH₃, F, Cl, Br, I, NH₂ or N₃;
- (h) Y is H, OH, CH₃, F, Cl, Br, I, NH₂N₃, OCH₃, or OC(O)CH₃;
- A fourth aspect of the fifth embodiment is directed to a compound represented by formula I-9
- wherein
- (a) R¹ is hydrogen, methyl, ethyl, n-propyl, i-propyl, phenyl, p-tolyl, p-bromo-phenyl, p-chloro-phenyl, p-fluorophenyl;
- (b) R² is hydrogen;

53

- (c) R^{3a} is H and R^{3b} is H, CH_3 , $CH(CH_3)_2$, $CH_2CH(CH_3)_2$, $CH(CH_3)CH_2CH_3$, CH_2Ph , or lower cycloalkyl;
 (d) R^4 is hydrogen, CH_3 , Et, iPr , nPr , nBu , 2-butyl, tBu , benzyl, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, N-methyl-aziridin-2-yl, N-methyl-azetid-3-yl, N-methyl-pyrrolidin-3-yl, N-methyl-pyrrolidin-4-yl, N-methyl-piperidin-4-yl, lower haloalkyl, or di(lower alkyl)amino-lower alkyl;
 (e) R^5 is H, with the provisos that when X is OH, R^6 is CH_3 or CH_2F , R^5 cannot be H;
 (f) R^6 is H, CH_3 , CH_2F , CHF_2 , CF_3 , or F;
 (g) X is H, OH, OCH_3 , F, NH_2 or N_3 ;
 (h) Y is OH, NH_2 , OCH_3 , or $OC(O)CH_3$;

A fifth aspect of the fifth embodiment is directed to a compound represented by formula I-9 wherein

- (a) R^1 is hydrogen, methyl, phenyl, p-bromo-phenyl, p-chloro-phenyl, p-fluorophenyl;
 (b) R^2 is hydrogen;
 (c) R^{3a} is H and R^{3b} is H, CH_3 , $CH(CH_3)_2$, $CH_2CH(CH_3)_2$, $CH(CH_3)CH_2CH_3$, CH_2Ph , or lower cycloalkyl;
 (d) R^4 is hydrogen, CH_3 , Et, iPr , nPr , nBu , 2-butyl, tBu , benzyl, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, N-methyl-aziridin-2-yl, N-methyl-azetid-3-yl, N-methyl-pyrrolidin-3-yl, N-methyl-pyrrolidin-4-yl, N-methyl-piperidin-4-yl, lower haloalkyl, or di(lower alkyl)amino-lower alkyl;
 (e) R^5 is H, with the provisos that when X is OH, R^6 is CH_3 or CH_2F , R^5 cannot be H;
 (f) R^6 is H, CH_3 , CH_2F , CHF_2 , CF_3 , or F;
 (g) X is H, OH, OCH_3 , F, NH_2 or N_3 ;
 (h) Y is OH, NH_2 , OCH_3 , or $OC(O)CH_3$; A sixth aspect of the fifth embodiment is directed to a compound represented by formula I-10



wherein

- (a) R^1 is hydrogen, methyl, ethyl, n-propyl, i-propyl, or a substituted or unsubstituted phenyl, where the substituent of the substituted phenyl is at least one of a CH_3 , OCH_3 , F, Cl, Br, I, nitro, cyano, and a $CH_{3-q}X_q$, where X is F, Cl, Br, or I, and q is 1-3;
 (b) R^2 is hydrogen or CH_3 ;
 (c) R^{3a} is H and R^{3b} is H, CH_3 , $CH(CH_3)_2$, $CH_2CH(CH_3)_2$, $CH(CH_3)CH_2CH_3$, CH_2Ph , CH_2 -indol-3-yl, $-CH_2CH_2SCH_3$, CH_2CO_2H , $CH_2C(O)NH_2$, CH_2CH_2COOH , $CH_2CH_2C(O)NH_2$, $CH_2CH_2CH_2CH_2NH_2$, $-CH_2CH_2CH_2NHC(NH)NH_2$, CH_2OH , $CH(OH)CH_3$, $CH_2((4'-OH)-Ph)$, CH_2SH , or lower cycloalkyl or R^{3a} is CH_3 , $CH(CH_3)_2$, $CH_2CH(CH_3)_2$, $CH(CH_3)CH_2CH_3$, CH_2Ph , CH_2 -indol-3-yl, $-CH_2CH_2SCH_3$, CH_2CO_2H , $CH_2C(O)NH_2$, CH_2CH_2COOH , $CH_2CH_2C(O)NH_2$, $CH_2CH_2CH_2CH_2NH_2$, $-CH_2CH_2CH_2NHC(NH)NH_2$, CH_2OH , $CH(OH)CH_3$, $CH_2((4'-OH)-Ph)$, CH_2SH , or lower cycloalkyl and R^{3b} is H;

54

- (d) R^4 is hydrogen, CH_3 , Et, iPr , nPr , nBu , 2-butyl, tBu , benzyl, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, N-methyl-aziridin-2-yl, N-methyl-azetid-3-yl, N-methyl-pyrrolidin-3-yl, N-methyl-pyrrolidin-4-yl, N-methyl-piperidin-4-yl, lower haloalkyl, or di(lower alkyl)amino-lower alkyl;
 (e) R^5 is H, CN, CH_3 , OCH_3 , CH_2OH , CH_2F , N_3 , CH_2CN , CH_2N_3 , CH_2NH_2 , CH_2NHCH_3 , $CH_2N(CH_3)_2$, halogen, including F, Cl, Br, or I, with the provisos that when X is OH, R^6 is CH_3 or CH_2F , R^5 cannot be H;
 (f) R^6 is H, CH_3 , CH_2F , CHF_2 , CF_3 , F, or CN;
 (g) X is H, OH, F, OCH_3 , Cl, Br, I, NH_2 , or N_3 ;
 (h) Y is OH, H, CH_3 , vinyl, N_3 , CN, Cl, Br, F, I, $OC(O)CH_3$, OCH_3 , NH_2 , $NHCH_3$, $NH(vinyl)$, $NH(acetyl)$, $NH(C(O)CH_3)$, $N(CH_3)_2$, $N(C(O)CH_3)_2$;

A seventh aspect of the fifth embodiment is directed to a compound represented by formula I-10 wherein

- (a) R^1 is hydrogen, methyl, ethyl, n-propyl, i-propyl, phenyl, p-tolyl, p-bromo-phenyl, p-chloro-phenyl, p-fluorophenyl;
 (b) R^2 is hydrogen or CH_3 ;
 (c) R^{3a} is H and R^{3b} is H, CH_3 , $CH(CH_3)_2$, $CH_2CH(CH_3)_2$, $CH(CH_3)CH_2CH_3$, CH_2Ph , CH_2 -indol-3-yl, $-CH_2CH_2SCH_3$, CH_2CO_2H , $CH_2C(O)NH_2$, CH_2CH_2COOH , $CH_2CH_2C(O)NH_2$, $CH_2CH_2CH_2CH_2NH_2$, $-CH_2CH_2CH_2NHC(NH)NH_2$, CH_2 -imidazol-4-yl, CH_2OH , $CH(OH)CH_3$, $CH_2((4'-OH)-Ph)$, CH_2SH , or lower cycloalkyl;
 (d) R^4 is hydrogen, CH_3 , Et, iPr , nPr , nBu , 2-butyl, tBu , benzyl, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, N-methyl-aziridin-2-yl, N-methyl-azetid-3-yl, N-methyl-pyrrolidin-3-yl, N-methyl-pyrrolidin-4-yl, N-methyl-piperidin-4-yl, lower haloalkyl, or di(lower alkyl)amino-lower alkyl;
 (e) R^5 is H, CN, CH_3 , OCH_3 , CH_2OH , CH_2F , halogen, including F, Cl, Br, or I, with the provisos that when X is OH, R^6 is CH_3 or CH_2F , R^5 cannot be H;
 (f) R^6 is H, CH_3 , CH_2F , CHF_2 , CF_3 , F, or CN;
 (g) X is H, OH, F, OCH_3 , Cl, Br, I, NH_2 , or N_3 ; and
 (h) Y is OH, H, CH_3 , vinyl, NH_2 , N_3 , CN, Cl, Br, F, I, $OC(O)CH_3$, OCH_3 .

An eighth aspect of the fifth embodiment is directed to a compound represented by formula I-10 wherein

- (a) R^1 is hydrogen, methyl, ethyl, n-propyl, i-propyl, phenyl, p-tolyl, p-bromo-phenyl, p-chloro-phenyl, p-fluorophenyl;
 (b) R^2 is hydrogen or CH_3 ;
 (c) R^{3a} is H and R^{3b} is H, CH_3 , $CH(CH_3)_2$, $CH_2CH(CH_3)_2$, $CH(CH_3)CH_2CH_3$, CH_2Ph , or lower cycloalkyl;
 (d) R^4 is hydrogen, CH_3 , Et, iPr , nPr , nBu , 2-butyl, tBu , benzyl, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, N-methyl-aziridin-2-yl, N-methyl-azetid-3-yl, N-methyl-pyrrolidin-3-yl, N-methyl-pyrrolidin-4-yl, N-methyl-piperidin-4-yl, lower haloalkyl, or di(lower alkyl) amino-lower alkyl;
 (e) R^5 is H, CN, CH_2F , F, Cl, Br, or I, with the provisos that when X is OH, R^6 is CH_3 or CH_2F , R^5 cannot be H;
 (f) R^6 is H, CH_3 , CH_2F , CHF_2 , CF_3 , or F;
 (g) X is H, OH, F, OCH_3 , F, Cl, Br, I, NH_2 or N_3 ;
 (h) Y is H, OH, CH_3 , F, Cl, Br, I, NH_2 or N_3 , OCH_3 , or $OC(O)CH_3$;

55

A ninth aspect of the fifth embodiment is directed to a compound represented by formula I-10 wherein

- (a) R¹ is hydrogen, methyl, ethyl, n-propyl, i-propyl, phenyl, p-tolyl, p-bromo-phenyl, p-chloro-phenyl, p-fluorophenyl;
- (b) R² is hydrogen;
- (c) R^{3a} is H and R^{3b} is H, CH₃, CH(CH₃)₂, CH₂CH(CH₃)₂, CH(CH₃)CH₂CH₃, CH₂Ph, or lower cycloalkyl;
- (d) R⁴ is hydrogen, CH₃, Et, ^tPr, ⁿPr, ⁿBu, 2-butyl, ^tBu, benzyl, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, N-methyl-aziridin-2-yl, N-methyl-azetidin-3-yl, N-methyl-pyrrolidin-3-yl, N-methyl-pyrrolidin-4-yl, N-methyl-piperidin-4-yl, lower haloalkyl, or di(lower alkyl)amino-lower alkyl;
- (e) R⁵ is H, with the provisos that when X is OH, R⁶ is CH₃ or CH₂F, R⁵ cannot be H;
- (f) R⁶ is H, CH₃, CH₂F, CHF₂, CF₃, or F;
- (g) X is H, OH, OCH₃, F, NH₂ or N₃;
- (h) Y is OH, NH₂, OCH₃, or OC(O)CH₃;

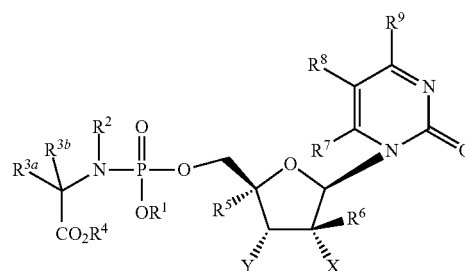
A tenth aspect of the fifth embodiment is directed to a compound represented by formula I-10 wherein

- (a) R¹ is hydrogen, methyl, phenyl, p-bromo-phenyl, p-chloro-phenyl, p-fluorophenyl;
- (b) R² is hydrogen;
- (c) R^{3a} is H and R^{3b} is H, CH₃, CH(CH₃)₂, CH₂CH(CH₃)₂, CH(CH₃)CH₂CH₃, CH₂Ph, or lower cycloalkyl;
- (d) R⁴ is hydrogen, CH₃, Et, ^tPr, ⁿPr, ⁿBu, 2-butyl, ^tBu, benzyl, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, N-methyl-aziridin-2-yl, N-methyl-azetidin-3-yl, N-methyl-pyrrolidin-3-yl, N-methyl-pyrrolidin-4-yl, N-methyl-piperidin-4-yl, lower haloalkyl, or di(lower alkyl)amino-lower alkyl;
- (e) R⁵ is H, with the provisos that when X is OH, R⁶ is CH₃ or CH₂F, R⁵ cannot be H;
- (f) R⁶ is H, CH₃, CH₂F, CHF₂, CF₃, or F;
- (g) X is H, OH, OCH₃, F, NH₂ or N₃;
- (h) Y is OH, NH₂, OCH₃, or OC(O)CH₃;

The following tables contain numeric identifiers associated with various substituent designators that should be viewed in light of the accompanying structure. These structures are contemplated species of the various aspects of the disclosed embodiments and are not intended to be limiting on full

56

breadth of the contemplated compound represented by the structure of formula I. However, it is contemplated that any one of the exemplified nucleoside bases can be used in combination with any one of contemplated species that specify a particular combination of R¹, R², R^{3a}, R^{3b}, R⁴, R⁵, R⁶, X, and Y. In each of the presented tables, the phosphoramidate substituent containing the substituents R^{3a} and R^{3b} are depicted without reference to stereochemical structure (cf. structures I-1, I-3, I-5, I-7, and I-9 above). It is contemplated that the compounds recited below embody compounds in which R^{3a} projects toward the viewer while R^{3b} projects away from the viewer (cf. structures I-2, I-4, I-6, I-8, and I-10). Moreover, it is contemplated that the compounds recited below also embody compounds in which R^{3a} projects away from the viewer while R^{3b} projects towards the viewer. Not meant to be limiting, however, it is contemplated that preferred compounds are those in which R^{3a} projects towards the viewer and R^{3b} projects away from the viewer such that the natural L-amino acid (S)-configuration is presented. Additionally, the inventors recognize that the phosphorus atom of the phosphoramidate moiety is another source of chirality. Although the structures below do not specifically depict chirality at phosphorus, the inventors recognize that stereochemical configurations are possible such that in a staggered (or zig-zag) line structure the oxo-substituent projects towards the viewer while the OR¹ substituent projects away from the viewer, and vice versa, i.e., where the Cahn-Ingold-Prelog stereochemical designation of phosphorous is either R or S. Therefore, the structures below include all possible stereochemical configurations possible for phosphorus.



II

TABLE II-1

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
II-1-1	CH ₃	H	H	H	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-1-2	CH ₃	H	H	CH ₃	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-1-3	CH ₃	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-1-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-1-5	CH ₃	H	H	CH ₂ Ph	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-1-6	CH ₃	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-1-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-1-8	CH ₃	*	H	*	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE II-2

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
II-2-1	Et	H	H	H	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-2-2	Et	H	H	CH ₃	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-2-3	Et	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-2-4	Et	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-2-5	Et	H	H	CH ₂ Ph	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂

TABLE II-2-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
II-2-6	Et	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-2-7	Et	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-2-8	Et	*	H	*	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE II-3

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
II-3-1	ⁱ Pr	H	H	H	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-3-2	ⁱ Pr	H	H	CH ₃	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-3-3	ⁱ Pr	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-3-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-3-5	ⁱ Pr	H	H	CH ₂ Ph	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-3-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-3-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-3-8	ⁱ Pr	*	H	*	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE II-4

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
II-4-1	^t Bu	H	H	H	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-4-2	^t Bu	H	H	CH ₃	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-4-3	^t Bu	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-4-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-4-5	^t Bu	H	H	CH ₂ Ph	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-4-6	^t Bu	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-4-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-4-8	^t Bu	*	H	*	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE II-5

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
II-5-1	Ph	H	H	H	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-5-2	Ph	H	H	CH ₃	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-5-3	Ph	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-5-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-5-5	Ph	H	H	CH ₂ Ph	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-5-6	Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-5-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-5-8	Ph	*	H	*	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE II-6

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
II-6-1	p-Me-Ph	H	H	H	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-6-2	p-Me-Ph	H	H	CH ₃	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-6-3	p-Me-Ph	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-6-4	p-Me-Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-6-5	p-Me-Ph	H	H	CH ₂ Ph	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-6-6	p-Me-Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-6-7	p-Me-Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-6-8	p-Me-Ph	*	H	*	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE 11-7

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
II-7-1	p-F—Ph	H	H	H	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-7-2	p-F—Ph	H	H	CH ₃	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-7-3	p-F—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-7-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-7-6	p-F—Ph	H	H	CH ₂ Ph	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-7-7	p-F—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-7-8	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-7-20	p-F—Ph	*	H	*	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE 11-8

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
II-8-1	p-Cl—Ph	H	H	H	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-8-2	p-Cl—Ph	H	H	CH ₃	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-8-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-8-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-8-5	p-Cl—Ph	H	H	CH ₂ Ph	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-8-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-8-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-8-8	p-Cl—Ph	*	H	*	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE 11-9

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
II-9-1	p-Br—Ph	H	H	H	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-9-2	p-Br—Ph	H	H	CH ₃	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-9-3	p-Br—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-9-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-9-6	p-Br—Ph	H	H	CH ₂ Ph	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-9-7	p-Br—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-9-8	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-9-20	p-Br—Ph	*	H	*	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE II-10

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
II-10-1	p-I—Ph	H	H	H	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-10-2	p-I—Ph	H	H	CH ₃	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-10-3	p-I—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-10-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-10-5	p-I—Ph	H	H	CH ₂ Ph	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-10-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-10-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂
II-10-8	p-I—Ph	*	H	*	CH ₃	H	CH ₃	OH	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

Table II-11

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
II-11-1	CH ₃	H	H	H	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-11-2	CH ₃	H	H	CH ₃	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-11-3	CH ₃	H	H	CH(CH ₃) ₂	Et	H	CH ₃	OH	OH	H	H	NH ₂

Table II-11-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
II-11-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-11-5	CH ₃	H	H	CH ₂ Ph	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-11-6	CH ₃	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-11-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-11-8	CH ₃	*	H	*	Et	H	CH ₃	OH	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE II-12

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
II-12-1	Et	H	H	H	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-12-2	Et	H	H	CH ₃	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-12-3	Et	H	H	CH(CH ₃) ₂	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-12-4	Et	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-12-5	Et	H	H	CH ₂ Ph	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-12-6	Et	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-12-7	Et	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-12-8	Et	*	H	*	Et	H	CH ₃	OH	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

25

TABLE II-13

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
II-13-1	ⁱ Pr	H	H	H	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-13-2	ⁱ Pr	H	H	CH ₃	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-13-3	ⁱ Pr	H	H	CH(CH ₃) ₂	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-13-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-13-5	ⁱ Pr	H	H	CH ₂ Ph	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-13-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-13-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-13-8	ⁱ Pr	*	H	*	Et	H	CH ₃	OH	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE II-14

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
II-14-1	^t Bu	H	H	H	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-14-2	^t Bu	H	H	CH ₃	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-14-3	^t Bu	H	H	CH(CH ₃) ₂	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-14-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-14-5	^t Bu	H	H	CH ₂ Ph	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-14-6	^t Bu	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-14-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-14-8	^t Bu	*	H	*	Et	H	CH ₃	OH	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE II-15

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
II-15-1	Ph	H	H	H	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-15-2	Ph	H	H	CH ₃	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-15-3	Ph	H	H	CH(CH ₃) ₂	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-15-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-15-5	Ph	H	H	CH ₂ Ph	Et	H	CH ₃	OH	OH	H	H	NH ₂

TABLE II-15-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
II-15-6	Ph	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-15-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-15-8	Ph	*	H	*	Et	H	CH ₃	OH	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE II-16

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
II-16-1	p-Me—Ph	H	H	H	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-16-2	p-Me—Ph	H	H	CH ₃	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-16-3	p-Me—Ph	H	H	CH(CH ₃) ₂	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-16-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-16-5	p-Me—Ph	H	H	CH ₂ Ph	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-16-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-16-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-16-8	p-Me—Ph	*	H	*	Et	H	CH ₃	OH	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE II-17

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
II-17-1	p-F—Ph	H	H	H	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-17-2	p-F—Ph	H	H	CH ₃	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-17-3	p-F—Ph	H	H	CH(CH ₃) ₂	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-17-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-17-5	p-F—Ph	H	H	CH ₂ Ph	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-17-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-17-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-17-8	p-F—Ph	*	H	*	Et	H	CH ₃	OH	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE II-18

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
II-18-1	p-Cl—Ph	H	H	H	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-18-2	p-Cl—Ph	H	H	CH ₃	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-18-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-18-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-18-5	p-Cl—Ph	H	H	CH ₂ Ph	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-18-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-18-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-18-8	p-Cl—Ph	*	H	*	Et	H	CH ₃	OH	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE II-19

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
II-19-1	p-Br—Ph	H	H	H	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-19-2	p-Br—Ph	H	H	CH ₃	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-19-3	p-Br—Ph	H	H	CH(CH ₃) ₂	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-19-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-19-5	p-Br—Ph	H	H	CH ₂ Ph	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-19-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-19-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-19-8	p-Br—Ph	*	H	*	Et	H	CH ₃	OH	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE II-20

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
II-20-1	p-I-Ph	H	H	H	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-20-2	p-I-Ph	H	H	CH ₃	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-20-3	p-I-Ph	H	H	CH(CH ₃) ₂	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-20-4	p-I-Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-20-5	p-I-Ph	H	H	CH ₂ Ph	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-20-6	p-I-Ph	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-20-7	p-I-Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	OH	OH	H	H	NH ₂
II-20-8	p-I-Ph	*	H	*	Et	H	CH ₃	OH	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE II-21

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
II-21-1	CH ₃	H	H	H	ⁱ Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-21-2	CH ₃	H	H	CH ₃	ⁱ Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-21-3	CH ₃	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-21-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-21-5	CH ₃	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-21-6	CH ₃	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-21-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-21-8	CH ₃	*	H	*	ⁱ Pr	H	CH ₃	OH	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE II-22

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
II-22-1	Et	H	H	H	ⁱ Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-22-2	Et	H	H	CH ₃	ⁱ Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-22-3	Et	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-22-4	Et	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-22-5	Et	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-22-6	Et	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-22-7	Et	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-22-8	Et	*	H	*	ⁱ Pr	H	CH ₃	OH	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE II-23

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
II-23-1	ⁱ Pr	H	H	H	ⁱ Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-23-2	ⁱ Pr	H	H	CH ₃	ⁱ Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-23-3	ⁱ Pr	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-23-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-23-5	ⁱ Pr	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-23-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-23-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-23-8	ⁱ Pr	*	H	*	ⁱ Pr	H	CH ₃	OH	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE II-24

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
II-24-1	^t Bu	H	H	H	ⁱ Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-24-2	^t Bu	H	H	CH ₃	ⁱ Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-24-3	^t Bu	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	OH	OH	H	H	NH ₂

TABLE II-24-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
II-24-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-24-5	^t Bu	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-24-6	^t Bu	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-24-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-24-8	^t Bu	*	H	*	ⁱ Pr	H	CH ₃	OH	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE II-25

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
II-25-1	Ph	H	H	H	ⁱ Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-25-2	Ph	H	H	CH ₃	ⁱ Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-25-3	Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-25-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-25-5	Ph	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-25-6	Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-25-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-25-8	Ph	*	H	*	ⁱ Pr	H	CH ₃	OH	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

25

TABLE II-26

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
II-26-1	p-Me—Ph	H	H	H	ⁱ Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-26-2	p-Me—Ph	H	H	CH ₃	ⁱ Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-26-3	p-Me—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-26-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-26-5	p-Me—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-26-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-26-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-26-8	p-Me—Ph	*	H	*	ⁱ Pr	H	CH ₃	OH	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE II-27

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
II-27-1	p-F—Ph	H	H	H	ⁱ Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-27-2	p-F—Ph	H	H	CH ₃	ⁱ Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-27-3	p-F—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-27-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-27-5	p-F—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-27-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-27-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-27-8	p-F—Ph	*	H	*	ⁱ Pr	H	CH ₃	OH	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE II-28

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
II-28-1	p-Cl—Ph	H	H	H	ⁱ Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-28-2	p-Cl—Ph	H	H	CH ₃	ⁱ Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-28-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-28-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-28-5	p-Cl—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	OH	OH	H	H	NH ₂

TABLE II-28-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
II-28-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	^t Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-28-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	^t Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-28-8	p-Cl—Ph	*	H	*	^t Pr	H	CH ₃	OH	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE II-29

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
II-29-1	p-Br—Ph	H	H	H	^t Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-29-2	p-Br—Ph	H	H	CH ₃	^t Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-29-3	p-Br—Ph	H	H	CH(CH ₃) ₂	^t Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-29-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	^t Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-29-5	p-Br—Ph	H	H	CH ₂ Ph	^t Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-29-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	^t Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-29-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	^t Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-29-8	p-Br—Ph	*	H	*	^t Pr	H	CH ₃	OH	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE II-30

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
II-30-1	p-I—Ph	H	H	H	^t Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-30-2	p-I—Ph	H	H	CH ₃	^t Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-30-3	p-I—Ph	H	H	CH(CH ₃) ₂	^t Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-30-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	^t Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-30-5	p-I—Ph	H	H	CH ₂ Ph	^t Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-30-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	^t Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-30-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	^t Pr	H	CH ₃	OH	OH	H	H	NH ₂
II-30-8	p-I—Ph	*	H	*	^t Pr	H	CH ₃	OH	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE II-31

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
II-31-1	CH ₃	H	H	H	ⁿ Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-31-2	CH ₃	H	H	CH ₃	ⁿ Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-31-3	CH ₃	H	H	CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-31-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-31-5	CH ₃	H	H	CH ₂ Ph	ⁿ Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-31-6	CH ₃	H	H	CH ₂ -indol-3-yl	ⁿ Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-31-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-31-8	CH ₃	*	H	*	ⁿ Bu	H	CH ₃	OH	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE II-32

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
II-32-1	Et	H	H	H	ⁿ Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-32-2	Et	H	H	CH ₃	ⁿ Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-32-3	Et	H	H	CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-32-4	Et	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-32-5	Et	H	H	CH ₂ Ph	ⁿ Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-32-6	Et	H	H	CH ₂ -indol-3-yl	ⁿ Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-32-7	Et	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-32-8	Et	*	H	*	ⁿ Bu	H	CH ₃	OH	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE II-33

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
II-33-1	ⁱ Pr	H	H	H	ⁿ Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-33-2	ⁱ Pr	H	H	CH ₃	ⁿ Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-33-3	ⁱ Pr	H	H	CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-33-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-33-5	ⁱ Pr	H	H	CH ₂ Ph	ⁿ Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-33-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	ⁿ Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-33-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-33-8	ⁱ Pr	*	H	*	ⁿ Bu	H	CH ₃	OH	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE II-34

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
II-34-1	^t Bu	H	H	H	ⁿ Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-34-2	^t Bu	H	H	CH ₃	ⁿ Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-34-3	^t Bu	H	H	CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-34-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-34-5	^t Bu	H	H	CH ₂ Ph	ⁿ Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-34-6	^t Bu	H	H	CH ₂ -indol-3-yl	ⁿ Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-34-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-34-8	^t Bu	*	H	*	ⁿ Bu	H	CH ₃	OH	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE II-35

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
II-35-1	Ph	H	H	H	ⁿ Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-35-2	Ph	H	H	CH ₃	ⁿ Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-35-3	Ph	H	H	CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-35-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-35-5	Ph	H	H	CH ₂ Ph	ⁿ Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-35-6	Ph	H	H	CH ₂ -indol-3-yl	ⁿ Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-35-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-35-8	Ph	*	H	*	ⁿ Bu	H	CH ₃	OH	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE II-36

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
II-36-1	p-Me—Ph	H	H	H	ⁿ Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-36-2	p-Me—Ph	H	H	CH ₃	ⁿ Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-36-3	p-Me—Ph	H	H	CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-36-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-36-5	p-Me—Ph	H	H	CH ₂ Ph	ⁿ Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-36-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	ⁿ Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-36-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-36-8	p-Me—Ph	*	H	*	ⁿ Bu	H	CH ₃	OH	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE II-37

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
II-37-1	p-F—Ph	H	H	H	ⁿ Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-37-2	p-F—Ph	H	H	CH ₃	ⁿ Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-37-3	p-F—Ph	H	H	CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	OH	OH	H	H	NH ₂

TABLE II-37-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
II-37-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-37-5	p-F—Ph	H	H	CH ₂ Ph	"Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-37-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-37-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-37-8	p-F—Ph	*	H	*	"Bu	H	CH ₃	OH	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE II-38

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
II-38-1	p-Cl—Ph	H	H	H	"Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-38-2	p-Cl—Ph	H	H	CH ₃	"Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-38-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	"Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-38-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-38-5	p-Cl—Ph	H	H	CH ₂ Ph	"Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-38-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-38-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-38-8	p-Cl—Ph	*	H	*	"Bu	H	CH ₃	OH	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

25

TABLE II-39

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
II-39-1	p-Br—Ph	H	H	H	"Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-39-2	p-Br—Ph	H	H	CH ₃	"Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-39-3	p-Br—Ph	H	H	CH(CH ₃) ₂	"Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-39-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-39-5	p-Br—Ph	H	H	CH ₂ Ph	"Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-39-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-39-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-39-8	p-Br—Ph	*	H	*	"Bu	H	CH ₃	OH	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE II-40

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
II-40-1	p-I—Ph	H	H	H	"Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-40-2	p-I—Ph	H	H	CH ₃	"Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-40-3	p-I—Ph	H	H	CH(CH ₃) ₂	"Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-40-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-40-5	p-I—Ph	H	H	CH ₂ Ph	"Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-40-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-40-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	CH ₃	OH	OH	H	H	NH ₂
II-40-8	p-I—Ph	*	H	*	"Bu	H	CH ₃	OH	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

Table II-41

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
II-41-1	CH ₃	H	H	H	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-41-2	CH ₃	H	H	CH ₃	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-41-3	CH ₃	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-41-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-41-5	CH ₃	H	H	CH ₂ Ph	Bz	H	CH ₃	OH	OH	H	H	NH ₂

Table II-41-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
II-41-6	CH ₃	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-41-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-41-8	CH ₃	*	H	*	Bz	H	CH ₃	OH	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE II-42

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
II-42-1	Et	H	H	H	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-42-2	Et	H	H	CH ₃	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-42-3	Et	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-42-4	Et	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-42-5	Et	H	H	CH ₂ Ph	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-42-6	Et	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-42-7	Et	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-42-8	Et	*	H	*	Bz	H	CH ₃	OH	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE II-43

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
II-43-1	ⁱ Pr	H	H	H	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-43-2	ⁱ Pr	H	H	CH ₃	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-43-3	ⁱ Pr	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-43-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-43-5	ⁱ Pr	H	H	CH ₂ Ph	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-43-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-43-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-43-8	ⁱ Pr	*	H	*	Bz	H	CH ₃	OH	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE II-44

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
II-44-1	^t Bu	H	H	H	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-44-2	^t Bu	H	H	CH ₃	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-44-3	^t Bu	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-44-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-44-5	^t Bu	H	H	CH ₂ Ph	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-44-6	^t Bu	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-44-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-44-8	^t Bu	*	H	*	Bz	H	CH ₃	OH	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE II-45

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
II-45-1	Ph	H	H	H	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-45-2	Ph	H	H	CH ₃	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-45-3	Ph	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-45-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-45-5	Ph	H	H	CH ₂ Ph	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-45-6	Ph	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-45-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-45-8	Ph	*	H	*	Bz	H	CH ₃	OH	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE II-46

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
II-46-1	p-Me—Ph	H	H	H	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-46-2	p-Me—Ph	H	H	CH ₃	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-46-3	p-Me—Ph	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-46-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-46-5	p-Me—Ph	H	H	CH ₂ Ph	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-46-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-46-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-46-8	p-Me—Ph	*	H	*	Bz	H	CH ₃	OH	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE II-47

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
II-47-1	p-F—Ph	H	H	H	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-47-2	p-F—Ph	H	H	CH ₃	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-47-3	p-F—Ph	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-47-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-47-5	p-F—Ph	H	H	CH ₂ Ph	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-47-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-47-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-47-8	p-F—Ph	*	H	*	Bz	H	CH ₃	OH	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE II-48

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
II-48-1	p-Cl—Ph	H	H	H	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-48-2	p-Cl—Ph	H	H	CH ₃	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-48-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-48-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-48-5	p-Cl—Ph	H	H	CH ₂ Ph	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-48-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-48-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-48-8	p-Cl—Ph	*	H	*	Bz	H	CH ₃	OH	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE II-49

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
II-49-1	p-Br—Ph	H	H	H	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-49-2	p-Br—Ph	H	H	CH ₃	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-49-3	p-Br—Ph	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-49-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-49-5	p-Br—Ph	H	H	CH ₂ Ph	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-49-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-49-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-49-8	p-Br—Ph	*	H	*	Bz	H	CH ₃	OH	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE II-50

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
II-50-1	p-I—Ph	H	H	H	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-50-2	p-I—Ph	H	H	CH ₃	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-50-3	p-I—Ph	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	OH	OH	H	H	NH ₂

TABLE II-50-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
II-50-4	p-I-Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-50-5	p-I-Ph	H	H	CH ₂ Ph	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-50-6	p-I-Ph	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-50-7	p-I-Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	OH	OH	H	H	NH ₂
II-50-8	p-I-Ph	*	H	*	Bz	H	CH ₃	OH	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

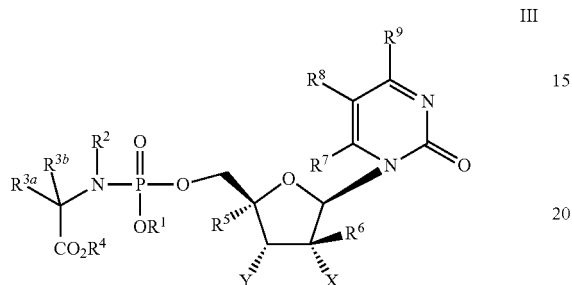


TABLE III-1

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
III-1-1	CH ₃	H	H	H	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-1-2	CH ₃	H	H	CH ₃	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-1-3	CH ₃	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-1-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-1-5	CH ₃	H	H	CH ₂ Ph	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-1-6	CH ₃	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-1-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-1-8	CH ₃	*	H	*	Bz	H	CH ₃	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE III-2

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
III-2-1	Et	H	H	H	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
III-2-2	Et	H	H	CH ₃	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
III-2-3	Et	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
III-2-4	Et	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
III-2-5	Et	H	H	CH ₂ Ph	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
III-2-6	Et	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
III-2-7	Et	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
III-2-8	Et	*	H	*	CH ₃	H	CH ₃	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE III-3

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
III-3-1	ⁱ Pr	H	H	H	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
III-3-2	ⁱ Pr	H	H	CH ₃	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
III-3-3	ⁱ Pr	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
III-3-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
III-3-5	ⁱ Pr	H	H	CH ₂ Ph	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
III-3-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
III-3-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
III-3-8	ⁱ Pr	*	H	*	CH ₃	H	CH ₃	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE III-4

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
III-4-1	tBu	H	H	H	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
III-4-2	tBu	H	H	CH ₃	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
III-4-3	tBu	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
III-4-4	tBu	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
III-4-5	tBu	H	H	CH ₂ Ph	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
III-4-6	tBu	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
III-4-7	tBu	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
III-4-8	tBu	*	H	*	CH ₃	H	CH ₃	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE III-5

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
III-5-1	Ph	H	H	H	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
III-5-2	Ph	H	H	CH ₃	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
III-5-3	Ph	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
III-5-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
III-5-5	Ph	H	H	CH ₂ Ph	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
III-5-6	Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
III-5-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
III-5-8	Ph	*	H	*	CH ₃	H	CH ₃	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE III-6

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
III-6-1	p-Me-Ph	H	H	H	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
III-6-2	p-Me-Ph	H	H	CH ₃	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
III-6-3	p-Me-Ph	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
III-6-4	p-Me-Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
III-6-5	p-Me-Ph	H	H	CH ₂ Ph	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
III-6-6	p-Me-Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
III-6-7	p-Me-Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
III-6-8	p-Me-Ph	*	H	*	CH ₃	H	CH ₃	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE III-7

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
III-7-1	p-F-Ph	H	H	H	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
III-7-2	p-F-Ph	H	H	CH ₃	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
III-7-3	p-F-Ph	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
III-7-4	p-F-Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
III-7-6	p-F-Ph	H	H	CH ₂ Ph	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
III-7-7	p-F-Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
III-7-8	p-F-Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
III-7-20	p-F-Ph	*	H	*	CH ₃	H	CH ₃	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE III-8

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
III-8-1	p-Cl-Ph	H	H	H	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
III-8-2	p-Cl-Ph	H	H	CH ₃	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
III-8-3	p-Cl-Ph	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH	H	H	NH ₂

TABLE III-8-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
III-8-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
III-8-5	p-Cl—Ph	H	H	CH ₂ Ph	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
III-8-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
III-8-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
III-8-8	p-Cl—Ph	*	H	*	CH ₃	H	CH ₃	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE III-9

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
III-9-1	p-Br—Ph	H	H	H	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
III-9-2	p-Br—Ph	H	H	CH ₃	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
III-9-3	p-Br—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
III-9-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
III-9-6	p-Br—Ph	H	H	CH ₂ Ph	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
III-9-7	p-Br—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
III-9-8	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
III-9-20	p-Br—Ph	*	H	*	CH ₃	H	CH ₃	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

25

TABLE III-10

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
III-10-1	p-I—Ph	H	H	H	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
III-10-2	p-I—Ph	H	H	CH ₃	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
III-10-3	p-I—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
III-10-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
III-10-5	p-I—Ph	H	H	CH ₂ Ph	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
III-10-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
III-10-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
III-10-8	p-I—Ph	*	H	*	CH ₃	H	CH ₃	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE III-11

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
III-11-1	CH ₃	H	H	H	Et	H	CH ₃	F	OH	H	H	NH ₂
III-11-2	CH ₃	H	H	CH ₃	Et	H	CH ₃	F	OH	H	H	NH ₂
III-11-3	CH ₃	H	H	CH(CH ₃) ₂	Et	H	CH ₃	F	OH	H	H	NH ₂
III-11-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	F	OH	H	H	NH ₂
III-11-5	CH ₃	H	H	CH ₂ Ph	Et	H	CH ₃	F	OH	H	H	NH ₂
III-11-6	CH ₃	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	F	OH	H	H	NH ₂
III-11-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	F	OH	H	H	NH ₂
III-11-8	CH ₃	*	H	*	Et	H	CH ₃	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE III-12

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
III-12-1	Et	H	H	H	Et	H	CH ₃	F	OH	H	H	NH ₂
III-12-2	Et	H	H	CH ₃	Et	H	CH ₃	F	OH	H	H	NH ₂
III-12-3	Et	H	H	CH(CH ₃) ₂	Et	H	CH ₃	F	OH	H	H	NH ₂
III-12-4	Et	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	F	OH	H	H	NH ₂
III-12-5	Et	H	H	CH ₂ Ph	Et	H	CH ₃	F	OH	H	H	NH ₂

TABLE III-12-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
III-12-6	Et	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	F	OH	H	H	NH ₂
III-12-7	Et	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	F	OH	H	H	NH ₂
III-12-8	Et	*	H	*	Et	H	CH ₃	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE III-13

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
III-13-1	ⁱ Pr	H	H	H	Et	H	CH ₃	F	OH	H	H	NH ₂
III-13-2	ⁱ Pr	H	H	CH ₃	Et	H	CH ₃	F	OH	H	H	NH ₂
III-13-3	ⁱ Pr	H	H	CH(CH ₃) ₂	Et	H	CH ₃	F	OH	H	H	NH ₂
III-13-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	F	OH	H	H	NH ₂
III-13-5	ⁱ Pr	H	H	CH ₂ Ph	Et	H	CH ₃	F	OH	H	H	NH ₂
III-13-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	F	OH	H	H	NH ₂
III-13-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	F	OH	H	H	NH ₂
III-13-8	ⁱ Pr	*	H	*	Et	H	CH ₃	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE III-14

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
III-14-1	^t Bu	H	H	H	Et	H	CH ₃	F	OH	H	H	NH ₂
III-14-2	^t Bu	H	H	CH ₃	Et	H	CH ₃	F	OH	H	H	NH ₂
III-14-3	^t Bu	H	H	CH(CH ₃) ₂	Et	H	CH ₃	F	OH	H	H	NH ₂
III-14-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	F	OH	H	H	NH ₂
III-14-5	^t Bu	H	H	CH ₂ Ph	Et	H	CH ₃	F	OH	H	H	NH ₂
III-14-6	^t Bu	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	F	OH	H	H	NH ₂
III-14-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	F	OH	H	H	NH ₂
III-14-8	^t Bu	*	H	*	Et	H	CH ₃	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE III-15

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
III-15-1	Ph	H	H	H	Et	H	CH ₃	F	OH	H	H	NH ₂
III-15-2	Ph	H	H	CH ₃	Et	H	CH ₃	F	OH	H	H	NH ₂
III-15-3	Ph	H	H	CH(CH ₃) ₂	Et	H	CH ₃	F	OH	H	H	NH ₂
III-15-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	F	OH	H	H	NH ₂
III-15-5	Ph	H	H	CH ₂ Ph	Et	H	CH ₃	F	OH	H	H	NH ₂
III-15-6	Ph	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	F	OH	H	H	NH ₂
III-15-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	F	OH	H	H	NH ₂
III-15-8	Ph	*	H	*	Et	H	CH ₃	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE III-16

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
III-16-1	p-Me—Ph	H	H	H	Et	H	CH ₃	F	OH	H	H	NH ₂
III-16-2	p-Me—Ph	H	H	CH ₃	Et	H	CH ₃	F	OH	H	H	NH ₂
III-16-3	p-Me—Ph	H	H	CH(CH ₃) ₂	Et	H	CH ₃	F	OH	H	H	NH ₂
III-16-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	F	OH	H	H	NH ₂
III-16-5	p-Me—Ph	H	H	CH ₂ Ph	Et	H	CH ₃	F	OH	H	H	NH ₂
III-16-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	F	OH	H	H	NH ₂
III-16-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	F	OH	H	H	NH ₂
III-16-8	p-Me—Ph	*	H	*	Et	H	CH ₃	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE III-17

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
III-17-1	p-F—Ph	H	H	H	Et	H	CH ₃	F	OH	H	H	NH ₂
III-17-2	p-F—Ph	H	H	CH ₃	Et	H	CH ₃	F	OH	H	H	NH ₂
III-17-3	p-F—Ph	H	H	CH(CH ₃) ₂	Et	H	CH ₃	F	OH	H	H	NH ₂
III-17-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	F	OH	H	H	NH ₂
III-17-5	p-F—Ph	H	H	CH ₂ Ph	Et	H	CH ₃	F	OH	H	H	NH ₂
III-17-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	F	OH	H	H	NH ₂
III-17-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	F	OH	H	H	NH ₂
III-17-8	p-F—Ph	*	H	*	Et	H	CH ₃	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE III-18

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
III-18-1	p-Cl—Ph	H	H	H	Et	H	CH ₃	F	OH	H	H	NH ₂
III-18-2	p-Cl—Ph	H	H	CH ₃	Et	H	CH ₃	F	OH	H	H	NH ₂
III-18-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	Et	H	CH ₃	F	OH	H	H	NH ₂
III-18-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	F	OH	H	H	NH ₂
III-18-5	p-Cl—Ph	H	H	CH ₂ Ph	Et	H	CH ₃	F	OH	H	H	NH ₂
III-18-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	F	OH	H	H	NH ₂
III-18-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	F	OH	H	H	NH ₂
III-18-8	p-Cl—Ph	*	H	*	Et	H	CH ₃	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE III-19

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
III-19-1	p-Br—Ph	H	H	H	Et	H	CH ₃	F	OH	H	H	NH ₂
III-19-2	p-Br—Ph	H	H	CH ₃	Et	H	CH ₃	F	OH	H	H	NH ₂
III-19-3	p-Br—Ph	H	H	CH(CH ₃) ₂	Et	H	CH ₃	F	OH	H	H	NH ₂
III-19-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	F	OH	H	H	NH ₂
III-19-5	p-Br—Ph	H	H	CH ₂ Ph	Et	H	CH ₃	F	OH	H	H	NH ₂
III-19-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	F	OH	H	H	NH ₂
III-19-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	F	OH	H	H	NH ₂
III-19-8	p-Br—Ph	*	H	*	Et	H	CH ₃	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE III-20

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
III-20-1	p-I—Ph	H	H	H	Et	H	CH ₃	F	OH	H	H	NH ₂
III-20-2	p-I—Ph	H	H	CH ₃	Et	H	CH ₃	F	OH	H	H	NH ₂
III-20-3	p-I—Ph	H	H	CH(CH ₃) ₂	Et	H	CH ₃	F	OH	H	H	NH ₂
III-20-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	F	OH	H	H	NH ₂
III-20-5	p-I—Ph	H	H	CH ₂ Ph	Et	H	CH ₃	F	OH	H	H	NH ₂
III-20-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	F	OH	H	H	NH ₂
III-20-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	F	OH	H	H	NH ₂
III-20-8	p-I—Ph	*	H	*	Et	H	CH ₃	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE III-21

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
III-21-1	CH ₃	H	H	H	^t Pr	H	CH ₃	F	OH	H	H	NH ₂
III-21-2	CH ₃	H	H	CH ₃	^t Pr	H	CH ₃	F	OH	H	H	NH ₂
III-21-3	CH ₃	H	H	CH(CH ₃) ₂	^t Pr	H	CH ₃	F	OH	H	H	NH ₂

TABLE III-21-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
III-21-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-21-5	CH ₃	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-21-6	CH ₃	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-21-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-21-8	CH ₃	*	H	*	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE III-22

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
III-22-1	Et	H	H	H	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-22-2	Et	H	H	CH ₃	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-22-3	Et	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-22-4	Et	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-22-5	Et	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-22-6	Et	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-22-7	Et	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-22-8	Et	*	H	*	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

25

TABLE III-23

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
III-23-1	ⁱ Pr	H	H	H	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-23-2	ⁱ Pr	H	H	CH ₃	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-23-3	ⁱ Pr	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-23-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-23-5	ⁱ Pr	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-23-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-23-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-23-8	ⁱ Pr	*	H	*	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE III-24

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
III-24-1	^t Bu	H	H	H	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-24-2	^t Bu	H	H	CH ₃	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-24-3	^t Bu	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-24-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-24-5	^t Bu	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-24-6	^t Bu	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-24-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-24-8	^t Bu	*	H	*	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE III-25

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
III-25-1	Ph	H	H	H	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-25-2	Ph	H	H	CH ₃	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-25-3	Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-25-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-25-5	Ph	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂

TABLE III-25-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
III-25-6	Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-25-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-25-8	Ph	*	H	*	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE III-26

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
III-26-1	p-Me—Ph	H	H	H	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-26-2	p-Me—Ph	H	H	CH ₃	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-26-3	p-Me—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-26-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-26-5	p-Me—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-26-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-26-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-26-8	p-Me—Ph	*	H	*	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE III-27

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
III-27-1	p-F—Ph	H	H	H	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-27-2	p-F—Ph	H	H	CH ₃	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-27-3	p-F—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-27-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-27-5	p-F—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-27-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-27-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-27-8	p-F—Ph	*	H	*	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE III-28

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
III-28-1	p-Cl—Ph	H	H	H	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-28-2	p-Cl—Ph	H	H	CH ₃	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-28-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-28-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-28-5	p-Cl—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-28-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-28-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-28-8	p-Cl—Ph	*	H	*	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE III-29

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
III-29-1	p-Br—Ph	H	H	H	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-29-2	p-Br—Ph	H	H	CH ₃	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-29-3	p-Br—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-29-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-29-5	p-Br—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-29-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-29-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-29-8	p-Br—Ph	*	H	*	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE III-30

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
III-30-1	p-I-Ph	H	H	H	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-30-2	p-I-Ph	H	H	CH ₃	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-30-3	p-I-Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-30-4	p-I-Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-30-5	p-I-Ph	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-30-6	p-I-Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-30-7	p-I-Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂
III-30-8	p-I-Ph	*	H	*	ⁱ Pr	H	CH ₃	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE III-31

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
III-31-1	CH ₃	H	H	H	ⁿ Bu	H	CH ₃	F	OH	H	H	NH ₂
III-31-2	CH ₃	H	H	CH ₃	ⁿ Bu	H	CH ₃	F	OH	H	H	NH ₂
III-31-3	CH ₃	H	H	CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	F	OH	H	H	NH ₂
III-31-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	F	OH	H	H	NH ₂
III-31-5	CH ₃	H	H	CH ₂ Ph	ⁿ Bu	H	CH ₃	F	OH	H	H	NH ₂
III-31-6	CH ₃	H	H	CH ₂ -indol-3-yl	ⁿ Bu	H	CH ₃	F	OH	H	H	NH ₂
III-31-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	H	CH ₃	F	OH	H	H	NH ₂
III-31-8	CH ₃	*	H	*	ⁿ Bu	H	CH ₃	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE III-32

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
III-32-1	Et	H	H	H	ⁿ Bu	H	CH ₃	F	OH	H	H	NH ₂
III-32-2	Et	H	H	CH ₃	ⁿ Bu	H	CH ₃	F	OH	H	H	NH ₂
III-32-3	Et	H	H	CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	F	OH	H	H	NH ₂
III-32-4	Et	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	F	OH	H	H	NH ₂
III-32-5	Et	H	H	CH ₂ Ph	ⁿ Bu	H	CH ₃	F	OH	H	H	NH ₂
III-32-6	Et	H	H	CH ₂ -indol-3-yl	ⁿ Bu	H	CH ₃	F	OH	H	H	NH ₂
III-32-7	Et	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	H	CH ₃	F	OH	H	H	NH ₂
III-32-8	Et	*	H	*	ⁿ Bu	H	CH ₃	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE III-33

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
III-33-1	ⁱ Pr	H	H	H	ⁿ Bu	H	CH ₃	F	OH	H	H	NH ₂
III-33-2	ⁱ Pr	H	H	CH ₃	ⁿ Bu	H	CH ₃	F	OH	H	H	NH ₂
III-33-3	ⁱ Pr	H	H	CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	F	OH	H	H	NH ₂
III-33-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	F	OH	H	H	NH ₂
III-33-5	ⁱ Pr	H	H	CH ₂ Ph	ⁿ Bu	H	CH ₃	F	OH	H	H	NH ₂
III-33-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	ⁿ Bu	H	CH ₃	F	OH	H	H	NH ₂
III-33-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	H	CH ₃	F	OH	H	H	NH ₂
III-33-8	ⁱ Pr	*	H	*	ⁿ Bu	H	CH ₃	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE III-34

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
III-34-1	^t Bu	H	H	H	ⁿ Bu	H	CH ₃	F	OH	H	H	NH ₂
III-34-2	^t Bu	H	H	CH ₃	ⁿ Bu	H	CH ₃	F	OH	H	H	NH ₂
III-34-3	^t Bu	H	H	CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	F	OH	H	H	NH ₂

TABLE III-34-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
III-34-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	F	OH	H	H	NH ₂
III-34-5	^t Bu	H	H	CH ₂ Ph	ⁿ Bu	H	CH ₃	F	OH	H	H	NH ₂
III-34-6	^t Bu	H	H	CH ₂ -indol-3-yl	ⁿ Bu	H	CH ₃	F	OH	H	H	NH ₂
III-34-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	H	CH ₃	F	OH	H	H	NH ₂
III-34-8	^t Bu	*	H	*	ⁿ Bu	H	CH ₃	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE III-35

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
III-35-1	Ph	H	H	H	ⁿ Bu	H	CH ₃	F	OH	H	H	NH ₂
III-35-2	Ph	H	H	CH ₃	ⁿ Bu	H	CH ₃	F	OH	H	H	NH ₂
III-35-3	Ph	H	H	CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	F	OH	H	H	NH ₂
III-35-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	F	OH	H	H	NH ₂
III-35-5	Ph	H	H	CH ₂ Ph	ⁿ Bu	H	CH ₃	F	OH	H	H	NH ₂
III-35-6	Ph	H	H	CH ₂ -indol-3-yl	ⁿ Bu	H	CH ₃	F	OH	H	H	NH ₂
III-35-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	H	CH ₃	F	OH	H	H	NH ₂
III-35-8	Ph	*	H	*	ⁿ Bu	H	CH ₃	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

25

TABLE III-36

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
III-36-1	p-Me—Ph	H	H	H	ⁿ Bu	H	CH ₃	F	OH	H	H	NH ₂
III-36-2	p-Me—Ph	H	H	CH ₃	ⁿ Bu	H	CH ₃	F	OH	H	H	NH ₂
III-36-3	p-Me—Ph	H	H	CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	F	OH	H	H	NH ₂
III-36-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	F	OH	H	H	NH ₂
III-36-5	p-Me—Ph	H	H	CH ₂ Ph	ⁿ Bu	H	CH ₃	F	OH	H	H	NH ₂
III-36-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	ⁿ Bu	H	CH ₃	F	OH	H	H	NH ₂
III-36-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	H	CH ₃	F	OH	H	H	NH ₂
III-36-8	p-Me—Ph	*	H	*	ⁿ Bu	H	CH ₃	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE III-37

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
III-37-1	p-F—Ph	H	H	H	ⁿ Bu	H	CH ₃	F	OH	H	H	NH ₂
III-37-2	p-F—Ph	H	H	CH ₃	ⁿ Bu	H	CH ₃	F	OH	H	H	NH ₂
III-37-3	p-F—Ph	H	H	CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	F	OH	H	H	NH ₂
III-37-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	F	OH	H	H	NH ₂
III-37-5	p-F—Ph	H	H	CH ₂ Ph	ⁿ Bu	H	CH ₃	F	OH	H	H	NH ₂
III-37-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	ⁿ Bu	H	CH ₃	F	OH	H	H	NH ₂
III-37-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	H	CH ₃	F	OH	H	H	NH ₂
III-37-8	p-F—Ph	*	H	*	ⁿ Bu	H	CH ₃	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE III-38

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
III-38-1	p-Cl—Ph	H	H	H	ⁿ Bu	H	CH ₃	F	OH	H	H	NH ₂
III-38-2	p-Cl—Ph	H	H	CH ₃	ⁿ Bu	H	CH ₃	F	OH	H	H	NH ₂
III-38-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	F	OH	H	H	NH ₂
III-38-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	F	OH	H	H	NH ₂
III-38-5	p-Cl—Ph	H	H	CH ₂ Ph	ⁿ Bu	H	CH ₃	F	OH	H	H	NH ₂

TABLE III-38-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
III-38-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	CH ₃	F	OH	H	H	NH ₂
III-38-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	CH ₃	F	OH	H	H	NH ₂
III-38-8	p-Cl—Ph	*	H	*	"Bu	H	CH ₃	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE III-39

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
III-39-1	p-Br—Ph	H	H	H	"Bu	H	CH ₃	F	OH	H	H	NH ₂
III-39-2	p-Br—Ph	H	H	CH ₃	"Bu	H	CH ₃	F	OH	H	H	NH ₂
III-39-3	p-Br—Ph	H	H	CH(CH ₃) ₂	"Bu	H	CH ₃	F	OH	H	H	NH ₂
III-39-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	CH ₃	F	OH	H	H	NH ₂
III-39-5	p-Br—Ph	H	H	CH ₂ Ph	"Bu	H	CH ₃	F	OH	H	H	NH ₂
III-39-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	CH ₃	F	OH	H	H	NH ₂
III-39-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	CH ₃	F	OH	H	H	NH ₂
III-39-8	p-Br—Ph	*	H	*	"Bu	H	CH ₃	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE III-40

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
III-40-1	p-I—Ph	H	H	H	"Bu	H	CH ₃	F	OH	H	H	NH ₂
III-40-2	p-I—Ph	H	H	CH ₃	"Bu	H	CH ₃	F	OH	H	H	NH ₂
III-40-3	p-I—Ph	H	H	CH(CH ₃) ₂	"Bu	H	CH ₃	F	OH	H	H	NH ₂
III-40-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	CH ₃	F	OH	H	H	NH ₂
III-40-5	p-I—Ph	H	H	CH ₂ Ph	"Bu	H	CH ₃	F	OH	H	H	NH ₂
III-40-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	CH ₃	F	OH	H	H	NH ₂
III-40-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	CH ₃	F	OH	H	H	NH ₂
III-40-8	p-I—Ph	*	H	*	"Bu	H	CH ₃	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE III-41

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
III-41-1	CH ₃	H	H	H	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-41-2	CH ₃	H	H	CH ₃	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-41-3	CH ₃	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-41-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-41-5	CH ₃	H	H	CH ₂ Ph	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-41-6	CH ₃	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-41-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-41-8	CH ₃	*	H	*	Bz	H	CH ₃	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE III-42

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
III-42-1	Et	H	H	H	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-42-2	Et	H	H	CH ₃	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-42-3	Et	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-42-4	Et	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-42-5	Et	H	H	CH ₂ Ph	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-42-6	Et	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-42-7	Et	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-42-8	Et	*	H	*	Bz	H	CH ₃	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE III-43

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
III-43-1	ⁱ Pr	H	H	H	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-43-2	ⁱ Pr	H	H	CH ₃	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-43-3	ⁱ Pr	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-43-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-43-5	ⁱ Pr	H	H	CH ₂ Ph	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-43-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-43-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-43-8	ⁱ Pr	*	H	*	Bz	H	CH ₃	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE III-44

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
III-44-1	^t Bu	H	H	H	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-44-2	^t Bu	H	H	CH ₃	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-44-3	^t Bu	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-44-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-44-5	^t Bu	H	H	CH ₂ Ph	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-44-6	^t Bu	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-44-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-44-8	^t Bu	*	H	*	Bz	H	CH ₃	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE III-45

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
III-45-1	Ph	H	H	H	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-45-2	Ph	H	H	CH ₃	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-45-3	Ph	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-45-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-45-5	Ph	H	H	CH ₂ Ph	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-45-6	Ph	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-45-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-45-8	Ph	*	H	*	Bz	H	CH ₃	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE III-46

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
III-46-1	p-Me—Ph	H	H	H	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-46-2	p-Me—Ph	H	H	CH ₃	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-46-3	p-Me—Ph	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-46-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-46-5	p-Me—Ph	H	H	CH ₂ Ph	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-46-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-46-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-46-8	p-Me—Ph	*	H	*	Bz	H	CH ₃	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE III-47

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
III-47-1	p-F—Ph	H	H	H	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-47-2	p-F—Ph	H	H	CH ₃	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-47-3	p-F—Ph	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	F	OH	H	H	NH ₂

TABLE III-47-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
III-47-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-47-5	p-F—Ph	H	H	CH ₂ Ph	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-47-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-47-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-47-8	p-F—Ph	*	H	*	Bz	H	CH ₃	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE III-48

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
III-48-1	p-Cl—Ph	H	H	H	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-48-2	p-Cl—Ph	H	H	CH ₃	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-48-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-48-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-48-5	p-Cl—Ph	H	H	CH ₂ Ph	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-48-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-48-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-48-8	p-Cl—Ph	*	H	*	Bz	H	CH ₃	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE III-49

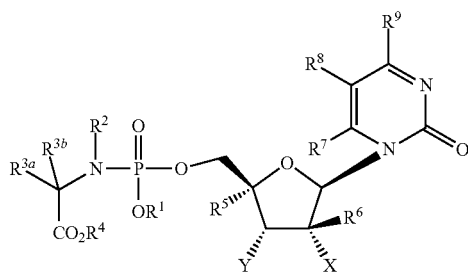
No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
III-49-1	p-Br—Ph	H	H	H	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-49-2	p-Br—Ph	H	H	CH ₃	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-49-3	p-Br—Ph	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-49-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-49-5	p-Br—Ph	H	H	CH ₂ Ph	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-49-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-49-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-49-8	p-Br—Ph	*	H	*	Bz	H	CH ₃	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE III-50

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
III-50-1	p-I—Ph	H	H	H	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-50-2	p-I—Ph	H	H	CH ₃	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-50-3	p-I—Ph	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-50-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-50-5	p-I—Ph	H	H	CH ₂ Ph	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-50-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-50-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	F	OH	H	H	NH ₂
III-50-8	p-I—Ph	*	H	*	Bz	H	CH ₃	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.



IV 55

60

65

TABLE IV-1

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
IV-1-1	CH ₃	H	H	H	CH ₃	H	F	F	OH	H	H	NH ₂
IV-1-2	CH ₃	H	H	CH ₃	CH ₃	H	F	F	OH	H	H	NH ₂
IV-1-3	CH ₃	H	H	CH(CH ₃) ₂	CH ₃	H	F	F	OH	H	H	NH ₂
IV-1-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	F	OH	H	H	NH ₂
IV-1-5	CH ₃	H	H	CH ₂ Ph	CH ₃	H	F	F	OH	H	H	NH ₂
IV-1-6	CH ₃	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	F	OH	H	H	NH ₂
IV-1-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	F	OH	H	H	NH ₂
IV-1-8	CH ₃	*	H	*	CH ₃	H	F	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IV-2

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
IV-2-1	Et	H	H	H	CH ₃	H	F	F	OH	H	H	NH ₂
IV-2-2	Et	H	H	CH ₃	CH ₃	H	F	F	OH	H	H	NH ₂
IV-2-3	Et	H	H	CH(CH ₃) ₂	CH ₃	H	F	F	OH	H	H	NH ₂
IV-2-4	Et	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	F	OH	H	H	NH ₂
IV-2-5	Et	H	H	CH ₂ Ph	CH ₃	H	F	F	OH	H	H	NH ₂
IV-2-6	Et	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	F	OH	H	H	NH ₂
IV-2-7	Et	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	F	OH	H	H	NH ₂
IV-2-8	Et	*	H	*	CH ₃	H	F	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IV-3

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
IV-3-1	ⁱ Pr	H	H	H	CH ₃	H	F	F	OH	H	H	NH ₂
IV-3-2	ⁱ Pr	H	H	CH ₃	CH ₃	H	F	F	OH	H	H	NH ₂
IV-3-3	ⁱ Pr	H	H	CH(CH ₃) ₂	CH ₃	H	F	F	OH	H	H	NH ₂
IV-3-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	F	OH	H	H	NH ₂
IV-3-5	ⁱ Pr	H	H	CH ₂ Ph	CH ₃	H	F	F	OH	H	H	NH ₂
IV-3-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	F	OH	H	H	NH ₂
IV-3-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	F	OH	H	H	NH ₂
IV-3-8	ⁱ Pr	*	H	*	CH ₃	H	F	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IV-4

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
IV-4-1	^t Bu	H	H	H	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
IV-4-2	^t Bu	H	H	CH ₃	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
IV-4-3	^t Bu	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
IV-4-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
IV-4-5	^t Bu	H	H	CH ₂ Ph	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
IV-4-6	^t Bu	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
IV-4-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	F	OH	H	H	NH ₂
IV-4-8	^t Bu	*	H	*	CH ₃	H	CH ₃	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IV-5

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
IV-5-1	Ph	H	H	H	CH ₃	H	F	F	OH	H	H	NH ₂
IV-5-2	Ph	H	H	CH ₃	CH ₃	H	F	F	OH	H	H	NH ₂
IV-5-3	Ph	H	H	CH(CH ₃) ₂	CH ₃	H	F	F	OH	H	H	NH ₂
IV-5-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	F	OH	H	H	NH ₂
IV-5-5	Ph	H	H	CH ₂ Ph	CH ₃	H	F	F	OH	H	H	NH ₂

TABLE IV-5-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
IV-5-6	Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	F	OH	H	H	NH ₂
IV-5-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	F	OH	H	H	NH ₂
IV-5-8	Ph	*	H	*	CH ₃	H	F	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IV-6

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
IV-6-1	p-Me—Ph	H	H	H	CH ₃	H	F	F	OH	H	H	NH ₂
IV-6-2	p-Me—Ph	H	H	CH ₃	CH ₃	H	F	F	OH	H	H	NH ₂
IV-6-3	p-Me—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	F	F	OH	H	H	NH ₂
IV-6-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	F	OH	H	H	NH ₂
IV-6-5	p-Me—Ph	H	H	CH ₂ Ph	CH ₃	H	F	F	OH	H	H	NH ₂
IV-6-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	F	OH	H	H	NH ₂
IV-6-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	F	OH	H	H	NH ₂
IV-6-8	p-Me—Ph	*	H	*	CH ₃	H	F	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IV-7

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
IV-7-1	p-F—Ph	H	H	H	CH ₃	H	F	F	OH	H	H	NH ₂
IV-7-2	p-F—Ph	H	H	CH ₃	CH ₃	H	F	F	OH	H	H	NH ₂
IV-7-3	p-F—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	F	F	OH	H	H	NH ₂
IV-7-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	F	OH	H	H	NH ₂
IV-7-6	p-F—Ph	H	H	CH ₂ Ph	CH ₃	H	F	F	OH	H	H	NH ₂
IV-7-7	p-F—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	F	OH	H	H	NH ₂
IV-7-8	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	F	OH	H	H	NH ₂
IV-7-20	p-F—Ph	*	H	*	CH ₃	H	F	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IV-8

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
IV-8-1	p-Cl—Ph	H	H	H	CH ₃	H	F	F	OH	H	H	NH ₂
IV-8-2	p-Cl—Ph	H	H	CH ₃	CH ₃	H	F	F	OH	H	H	NH ₂
IV-8-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	F	F	OH	H	H	NH ₂
IV-8-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	F	OH	H	H	NH ₂
IV-8-5	p-Cl—Ph	H	H	CH ₂ Ph	CH ₃	H	F	F	OH	H	H	NH ₂
IV-8-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	F	OH	H	H	NH ₂
IV-8-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	F	OH	H	H	NH ₂
IV-8-8	p-Cl—Ph	*	H	*	CH ₃	H	F	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IV-9

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
IV-9-1	p-Br—Ph	H	H	H	CH ₃	H	F	F	OH	H	H	NH ₂
IV-9-2	p-Br—Ph	H	H	CH ₃	CH ₃	H	F	F	OH	H	H	NH ₂
IV-9-3	p-Br—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	F	F	OH	H	H	NH ₂
IV-9-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	F	OH	H	H	NH ₂
IV-9-6	p-Br—Ph	H	H	CH ₂ Ph	CH ₃	H	F	F	OH	H	H	NH ₂
IV-9-7	p-Br—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	F	OH	H	H	NH ₂
IV-9-8	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	F	OH	H	H	NH ₂
IV-9-20	p-Br—Ph	*	H	*	CH ₃	H	F	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IV-10

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
IV-10-1	p-I—Ph	H	H	H	CH ₃	H	F	F	OH	H	H	NH ₂
IV-10-2	p-I—Ph	H	H	CH ₃	CH ₃	H	F	F	OH	H	H	NH ₂
IV-10-3	p-I—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	F	F	OH	H	H	NH ₂
IV-10-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	F	OH	H	H	NH ₂
IV-10-5	p-I—Ph	H	H	CH ₂ Ph	CH ₃	H	F	F	OH	H	H	NH ₂
IV-10-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	F	OH	H	H	NH ₂
IV-10-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	F	OH	H	H	NH ₂
IV-10-8	p-I—Ph	*	H	*	CH ₃	H	F	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IV-11

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
IV-11-1	CH ₃	H	H	H	Et	H	F	F	OH	H	H	NH ₂
IV-11-2	CH ₃	H	H	CH ₃	Et	H	F	F	OH	H	H	NH ₂
IV-11-3	CH ₃	H	H	CH(CH ₃) ₂	Et	H	F	F	OH	H	H	NH ₂
IV-11-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	F	OH	H	H	NH ₂
IV-11-5	CH ₃	H	H	CH ₂ Ph	Et	H	F	F	OH	H	H	NH ₂
IV-11-6	CH ₃	H	H	CH ₂ -indol-3-yl	Et	H	F	F	OH	H	H	NH ₂
IV-11-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	F	OH	H	H	NH ₂
IV-11-8	CH ₃	*	H	*	Et	H	F	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IV-12

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
IV-12-1	Et	H	H	H	Et	H	F	F	OH	H	H	NH ₂
IV-12-2	Et	H	H	CH ₃	Et	H	F	F	OH	H	H	NH ₂
IV-12-3	Et	H	H	CH(CH ₃) ₂	Et	H	F	F	OH	H	H	NH ₂
IV-12-4	Et	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	F	OH	H	H	NH ₂
IV-12-5	Et	H	H	CH ₂ Ph	Et	H	F	F	OH	H	H	NH ₂
IV-12-6	Et	H	H	CH ₂ -indol-3-yl	Et	H	F	F	OH	H	H	NH ₂
IV-12-7	Et	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	F	OH	H	H	NH ₂
IV-12-8	Et	*	H	*	Et	H	F	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IV-13

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
IV-13-1	^t Pr	H	H	H	Et	H	F	F	OH	H	H	NH ₂
IV-13-2	^t Pr	H	H	CH ₃	Et	H	F	F	OH	H	H	NH ₂
IV-13-3	^t Pr	H	H	CH(CH ₃) ₂	Et	H	F	F	OH	H	H	NH ₂
IV-13-4	^t Pr	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	F	OH	H	H	NH ₂
IV-13-5	^t Pr	H	H	CH ₂ Ph	Et	H	F	F	OH	H	H	NH ₂
IV-13-6	^t Pr	H	H	CH ₂ -indol-3-yl	Et	H	F	F	OH	H	H	NH ₂
IV-13-7	^t Pr	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	F	OH	H	H	NH ₂
IV-13-8	^t Pr	*	H	*	Et	H	F	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IV-14

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
IV-14-1	^t Bu	H	H	H	Et	H	F	F	OH	H	H	NH ₂
IV-14-2	^t Bu	H	H	CH ₃	Et	H	F	F	OH	H	H	NH ₂
IV-14-3	^t Bu	H	H	CH(CH ₃) ₂	Et	H	F	F	OH	H	H	NH ₂

TABLE IV-14-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
IV-14-4	t-Bu	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	F	OH	H	H	NH ₂
IV-14-5	t-Bu	H	H	CH ₂ Ph	Et	H	F	F	OH	H	H	NH ₂
IV-14-6	t-Bu	H	H	CH ₂ -indol-3-yl	Et	H	F	F	OH	H	H	NH ₂
IV-14-7	t-Bu	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	F	OH	H	H	NH ₂
IV-14-8	t-Bu	*	H	*	Et	H	F	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IV-15

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
IV-15-1	Ph	H	H	H	Et	H	F	F	OH	H	H	NH ₂
IV-15-2	Ph	H	H	CH ₃	Et	H	F	F	OH	H	H	NH ₂
IV-15-3	Ph	H	H	CH(CH ₃) ₂	Et	H	F	F	OH	H	H	NH ₂
IV-15-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	F	OH	H	H	NH ₂
IV-15-5	Ph	H	H	CH ₂ Ph	Et	H	F	F	OH	H	H	NH ₂
IV-15-6	Ph	H	H	CH ₂ -indol-3-yl	Et	H	F	F	OH	H	H	NH ₂
IV-15-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	F	OH	H	H	NH ₂
IV-15-8	Ph	*	H	*	Et	H	F	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

25

TABLE IV-16

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
IV-16-1	p-Me—Ph	H	H	H	Et	H	F	F	OH	H	H	NH ₂
IV-16-2	p-Me—Ph	H	H	CH ₃	Et	H	F	F	OH	H	H	NH ₂
IV-16-3	p-Me—Ph	H	H	CH(CH ₃) ₂	Et	H	F	F	OH	H	H	NH ₂
IV-16-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	F	OH	H	H	NH ₂
IV-16-5	p-Me—Ph	H	H	CH ₂ Ph	Et	H	F	F	OH	H	H	NH ₂
IV-16-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	Et	H	F	F	OH	H	H	NH ₂
IV-16-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	F	OH	H	H	NH ₂
IV-16-8	p-Me—Ph	*	H	*	Et	H	F	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IV-17

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
IV-17-1	p-F—Ph	H	H	H	Et	H	F	F	OH	H	H	NH ₂
IV-17-2	p-F—Ph	H	H	CH ₃	Et	H	F	F	OH	H	H	NH ₂
IV-17-3	p-F—Ph	H	H	CH(CH ₃) ₂	Et	H	F	F	OH	H	H	NH ₂
IV-17-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	F	OH	H	H	NH ₂
IV-17-5	p-F—Ph	H	H	CH ₂ Ph	Et	H	F	F	OH	H	H	NH ₂
IV-17-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	Et	H	F	F	OH	H	H	NH ₂
IV-17-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	F	OH	H	H	NH ₂
IV-17-8	p-F—Ph	*	H	*	Et	H	F	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IV-18

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
IV-18-1	p-Cl—Ph	H	H	H	Et	H	F	F	OH	H	H	NH ₂
IV-18-2	p-Cl—Ph	H	H	CH ₃	Et	H	F	F	OH	H	H	NH ₂
IV-18-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	Et	H	F	F	OH	H	H	NH ₂
IV-18-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	F	OH	H	H	NH ₂
IV-18-5	p-Cl—Ph	H	H	CH ₂ Ph	Et	H	F	F	OH	H	H	NH ₂

TABLE IV-18-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
IV-18-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	Et	H	F	F	OH	H	H	NH ₂
IV-18-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	F	OH	H	H	NH ₂
IV-18-8	p-Cl—Ph	*	H	*	Et	H	F	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IV-19

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
IV-19-1	p-Br—Ph	H	H	H	Et	H	F	F	OH	H	H	NH ₂
IV-19-2	p-Br—Ph	H	H	CH ₃	Et	H	F	F	OH	H	H	NH ₂
IV-19-3	p-Br—Ph	H	H	CH(CH ₃) ₂	Et	H	F	F	OH	H	H	NH ₂
IV-19-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	F	OH	H	H	NH ₂
IV-19-5	p-Br—Ph	H	H	CH ₂ Ph	Et	H	F	F	OH	H	H	NH ₂
IV-19-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	Et	H	F	F	OH	H	H	NH ₂
IV-19-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	F	OH	H	H	NH ₂
IV-19-8	p-Br—Ph	*	H	*	Et	H	F	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IV-20

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
IV-20-1	p-I—Ph	H	H	H	Et	H	F	F	OH	H	H	NH ₂
IV-20-2	p-I—Ph	H	H	CH ₃	Et	H	F	F	OH	H	H	NH ₂
IV-20-3	p-I—Ph	H	H	CH(CH ₃) ₂	Et	H	F	F	OH	H	H	NH ₂
IV-20-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	F	OH	H	H	NH ₂
IV-20-5	p-I—Ph	H	H	CH ₂ Ph	Et	H	F	F	OH	H	H	NH ₂
IV-20-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	Et	H	F	F	OH	H	H	NH ₂
IV-20-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	F	OH	H	H	NH ₂
IV-20-8	p-I—Ph	*	H	*	Et	H	F	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IV-21

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
IV-21-1	CH ₃	H	H	H	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-21-2	CH ₃	H	H	CH ₃	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-21-3	CH ₃	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-21-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-21-5	CH ₃	H	H	CH ₂ Ph	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-21-6	CH ₃	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-21-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-21-8	CH ₃	*	H	*	ⁱ Pr	H	F	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IV-22

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
IV-22-1	Et	H	H	H	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-22-2	Et	H	H	CH ₃	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-22-3	Et	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-22-4	Et	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-22-5	Et	H	H	CH ₂ Ph	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-22-6	Et	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-22-7	Et	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-22-8	Et	*	H	*	ⁱ Pr	H	F	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IV-23

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
IV-23-1	ⁱ Pr	H	H	H	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-23-2	ⁱ Pr	H	H	CH ₃	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-23-3	ⁱ Pr	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-23-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-23-5	ⁱ Pr	H	H	CH ₂ Ph	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-23-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-23-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-23-8	ⁱ Pr	*	H	*	ⁱ Pr	H	F	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IV-24

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
IV-24-1	^t Bu	H	H	H	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-24-2	^t Bu	H	H	CH ₃	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-24-3	^t Bu	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-24-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-24-5	^t Bu	H	H	CH ₂ Ph	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-24-6	^t Bu	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-24-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-24-8	^t Bu	*	H	*	ⁱ Pr	H	F	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IV-25

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
IV-25-1	Ph	H	H	H	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-25-2	Ph	H	H	CH ₃	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-25-3	Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-25-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-25-5	Ph	H	H	CH ₂ Ph	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-25-6	Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-25-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-25-8	Ph	*	H	*	ⁱ Pr	H	F	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IV-26

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
IV-26-1	p-Me—Ph	H	H	H	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-26-2	p-Me—Ph	H	H	CH ₃	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-26-3	p-Me—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-26-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-26-5	p-Me—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-26-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-26-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-26-8	p-Me—Ph	*	H	*	ⁱ Pr	H	F	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IV-27

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
IV-27-1	p-F—Ph	H	H	H	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-27-2	p-F—Ph	H	H	CH ₃	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-27-3	p-F—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH	H	H	NH ₂

TABLE IV-27-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
IV-27-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-27-5	p-F—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-27-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-27-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-27-8	p-F—Ph	*	H	*	ⁱ Pr	H	F	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IV-28

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
IV-28-1	p-Cl—Ph	H	H	H	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-28-2	p-Cl—Ph	H	H	CH ₃	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-28-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-28-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-28-5	p-Cl—Ph	H	H	CH ₂ Ph	ⁱ Pr	F	F	F	OH	H	H	NH ₂
IV-28-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-28-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-28-8	p-Cl—Ph	*	H	*	ⁱ Pr	H	F	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

25

TABLE IV-29

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
IV-29-1	p-Br—Ph	H	H	H	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-29-2	p-Br—Ph	H	H	CH ₃	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-29-3	p-Br—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-29-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-29-5	p-Br—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-29-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-29-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-29-8	p-Br—Ph	*	H	*	ⁱ Pr	H	F	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IV-30

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
IV-30-1	p-I—Ph	H	H	H	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-30-2	p-I—Ph	H	H	CH ₃	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-30-3	p-I—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-30-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-30-5	p-I—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-30-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-30-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	F	OH	H	H	NH ₂
IV-30-8	p-I—Ph	*	H	*	ⁱ Pr	H	F	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IV-31

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
IV-31-1	CH ₃	H	H	H	ⁿ Bu	H	F	F	OH	H	H	NH ₂
IV-31-2	CH ₃	H	H	CH ₃	ⁿ Bu	H	F	F	OH	H	H	NH ₂
IV-31-3	CH ₃	H	H	CH(CH ₃) ₂	ⁿ Bu	H	F	F	OH	H	H	NH ₂
IV-31-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	F	F	OH	H	H	NH ₂
IV-31-5	CH ₃	H	H	CH ₂ Ph	ⁿ Bu	H	F	F	OH	H	H	NH ₂

TABLE IV-31-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
IV-31-6	CH ₃	H	H	CH ₂ -indol-3-yl	^t Bu	H	F	F	OH	H	H	NH ₂
IV-31-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	^t Bu	H	F	F	OH	H	H	NH ₂
IV-31-8	CH ₃	*	H	*	^t Bu	H	F	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IV-32

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
IV-32-1	Et	H	H	H	^t Bu	H	F	F	OH	H	H	NH ₂
IV-32-2	Et	H	H	CH ₃	^t Bu	H	F	F	OH	H	H	NH ₂
IV-32-3	Et	H	H	CH(CH ₃) ₂	^t Bu	H	F	F	OH	H	H	NH ₂
IV-32-4	Et	H	H	CH ₂ CH(CH ₃) ₂	^t Bu	H	F	F	OH	H	H	NH ₂
IV-32-5	Et	H	H	CH ₂ Ph	^t Bu	H	F	F	OH	H	H	NH ₂
IV-32-6	Et	H	H	CH ₂ -indol-3-yl	^t Bu	H	F	F	OH	H	H	NH ₂
IV-32-7	Et	H	H	CH ₂ CH ₂ SCH ₃	^t Bu	H	F	F	OH	H	H	NH ₂
IV-32-8	Et	*	H	*	^t Bu	H	F	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IV-33

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
IV-33-1	ⁱ Pr	H	H	H	^t Bu	H	F	F	OH	H	H	NH ₂
IV-33-2	ⁱ Pr	H	H	CH ₃	^t Bu	H	F	F	OH	H	H	NH ₂
IV-33-3	ⁱ Pr	H	H	CH(CH ₃) ₂	^t Bu	H	F	F	OH	H	H	NH ₂
IV-33-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	^t Bu	H	F	F	OH	H	H	NH ₂
IV-33-5	ⁱ Pr	H	H	CH ₂ Ph	^t Bu	H	F	F	OH	H	H	NH ₂
IV-33-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	^t Bu	H	F	F	OH	H	H	NH ₂
IV-33-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	^t Bu	H	F	F	OH	H	H	NH ₂
IV-33-8	ⁱ Pr	*	H	*	^t Bu	H	F	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IV-34

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
IV-34-1	^t Bu	H	H	H	^t Bu	H	F	F	OH	H	H	NH ₂
IV-34-2	^t Bu	H	H	CH ₃	^t Bu	H	F	F	OH	H	H	NH ₂
IV-34-3	^t Bu	H	H	CH(CH ₃) ₂	^t Bu	H	F	F	OH	H	H	NH ₂
IV-34-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	^t Bu	H	F	F	OH	H	H	NH ₂
IV-34-5	^t Bu	H	H	CH ₂ Ph	^t Bu	H	F	F	OH	H	H	NH ₂
IV-34-6	^t Bu	H	H	CH ₂ -indol-3-yl	^t Bu	H	F	F	OH	H	H	NH ₂
IV-34-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	^t Bu	H	F	F	OH	H	H	NH ₂
IV-34-8	^t Bu	*	H	*	^t Bu	H	F	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IV-35

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
IV-35-1	Ph	H	H	H	^t Bu	H	F	F	OH	H	H	NH ₂
IV-35-2	Ph	H	H	CH ₃	^t Bu	H	F	F	OH	H	H	NH ₂
IV-35-3	Ph	H	H	CH(CH ₃) ₂	^t Bu	H	F	F	OH	H	H	NH ₂
IV-35-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	^t Bu	H	F	F	OH	H	H	NH ₂
IV-35-5	Ph	H	H	CH ₂ Ph	^t Bu	H	F	F	OH	H	H	NH ₂
IV-35-6	Ph	H	H	CH ₂ -indol-3-yl	^t Bu	H	F	F	OH	H	H	NH ₂
IV-35-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	^t Bu	H	F	F	OH	H	H	NH ₂
IV-35-8	Ph	*	H	*	^t Bu	H	F	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IV-36

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
IV-36-1	p-Me—Ph	H	H	H	"Bu	H	F	F	OH	H	H	NH ₂
IV-36-2	p-Me—Ph	H	H	CH ₃	"Bu	H	F	F	OH	H	H	NH ₂
IV-36-3	p-Me—Ph	H	H	CH(CH ₃) ₂	"Bu	H	F	F	OH	H	H	NH ₂
IV-36-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	F	OH	H	H	NH ₂
IV-36-5	p-Me—Ph	H	H	CH ₂ Ph	"Bu	H	F	F	OH	H	H	NH ₂
IV-36-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	F	F	OH	H	H	NH ₂
IV-36-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	F	OH	H	H	NH ₂
IV-36-8	p-Me—Ph	*	H	*	"Bu	H	F	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IV-37

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
IV-37-1	p-F—Ph	H	H	H	"Bu	H	F	F	OH	H	H	NH ₂
IV-37-2	p-F—Ph	H	H	CH ₃	"Bu	H	F	F	OH	H	H	NH ₂
IV-37-3	p-F—Ph	H	H	CH(CH ₃) ₂	"Bu	H	F	F	OH	H	H	NH ₂
IV-37-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	F	OH	H	H	NH ₂
IV-37-5	p-F—Ph	H	H	CH ₂ Ph	"Bu	H	F	F	OH	H	H	NH ₂
IV-37-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	F	F	OH	H	H	NH ₂
IV-37-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	F	OH	H	H	NH ₂
IV-37-8	p-F—Ph	*	H	*	"Bu	H	F	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IV-38

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
IV-38-1	p-Cl—Ph	H	H	H	"Bu	H	F	F	OH	H	H	NH ₂
IV-38-2	p-Cl—Ph	H	H	CH ₃	"Bu	H	F	F	OH	H	H	NH ₂
IV-38-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	"Bu	H	F	F	OH	H	H	NH ₂
IV-38-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	F	OH	H	H	NH ₂
IV-38-5	p-Cl—Ph	H	H	CH ₂ Ph	"Bu	H	F	F	OH	H	H	NH ₂
IV-38-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	F	F	OH	H	H	NH ₂
IV-38-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	F	OH	H	H	NH ₂
IV-38-8	p-Cl—Ph	*	H	*	"Bu	H	F	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IV-39

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
IV-39-1	p-Br—Ph	H	H	H	"Bu	H	F	F	OH	H	H	NH ₂
IV-39-2	p-Br—Ph	H	H	CH ₃	"Bu	H	F	F	OH	H	H	NH ₂
IV-39-3	p-Br—Ph	H	H	CH(CH ₃) ₂	"Bu	H	F	F	OH	H	H	NH ₂
IV-39-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	F	OH	H	H	NH ₂
IV-39-5	p-Br—Ph	H	H	CH ₂ Ph	"Bu	H	F	F	OH	H	H	NH ₂
IV-39-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	F	F	OH	H	H	NH ₂
IV-39-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	F	OH	H	H	NH ₂
IV-39-8	p-Br—Ph	*	H	*	"Bu	H	F	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IV-40

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
IV-40-1	p-I—Ph	H	H	H	"Bu	H	F	F	OH	H	H	NH ₂
IV-40-2	p-I—Ph	H	H	CH ₃	"Bu	H	F	F	OH	H	H	NH ₂
IV-40-3	p-I—Ph	H	H	CH(CH ₃) ₂	"Bu	H	F	F	OH	H	H	NH ₂

TABLE IV-40-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
IV-40-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	F	OH	H	H	NH ₂
IV-40-5	p-I—Ph	H	H	CH ₂ Ph	"Bu	H	F	F	OH	H	H	NH ₂
IV-40-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	F	F	OH	H	H	NH ₂
IV-40-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	F	OH	H	H	NH ₂
IV-40-8	p-I—Ph	*	H	*	"Bu	H	F	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IV-41

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
IV-41-1	CH ₃	H	H	H	Bz	H	F	F	OH	H	H	NH ₂
IV-41-2	CH ₃	H	H	CH ₃	Bz	H	F	F	OH	H	H	NH ₂
IV-41-3	CH ₃	H	H	CH(CH ₃) ₂	Bz	H	F	F	OH	H	H	NH ₂
IV-41-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	F	OH	H	H	NH ₂
IV-41-5	CH ₃	H	H	CH ₂ Ph	Bz	H	F	F	OH	H	H	NH ₂
IV-41-6	CH ₃	H	H	CH ₂ -indol-3-yl	Bz	H	F	F	OH	H	H	NH ₂
IV-41-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	F	OH	H	H	NH ₂
IV-41-8	CH ₃	*	H	*	Bz	H	F	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

25

TABLE IV-42

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
IV-42-1	Et	H	H	H	Bz	H	F	F	OH	H	H	NH ₂
IV-42-2	Et	H	H	CH ₃	Bz	H	F	F	OH	H	H	NH ₂
IV-42-3	Et	H	H	CH(CH ₃) ₂	Bz	H	F	F	OH	H	H	NH ₂
IV-42-4	Et	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	F	OH	H	H	NH ₂
IV-42-5	Et	H	H	CH ₂ Ph	Bz	H	F	F	OH	H	H	NH ₂
IV-42-6	Et	H	H	CH ₂ -indol-3-yl	Bz	H	F	F	OH	H	H	NH ₂
IV-42-7	Et	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	F	OH	H	H	NH ₂
IV-42-8	Et	*	H	*	Bz	H	F	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IV-43

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
IV-43-1	ⁱ Pr	H	H	H	Bz	H	F	F	OH	H	H	NH ₂
IV-43-2	ⁱ Pr	H	H	CH ₃	Bz	H	F	F	OH	H	H	NH ₂
IV-43-3	ⁱ Pr	H	H	CH(CH ₃) ₂	Bz	H	F	F	OH	H	H	NH ₂
IV-43-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	F	OH	H	H	NH ₂
IV-43-5	ⁱ Pr	H	H	CH ₂ Ph	Bz	H	F	F	OH	H	H	NH ₂
IV-43-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	Bz	H	F	F	OH	H	H	NH ₂
IV-43-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	F	OH	H	H	NH ₂
IV-43-8	ⁱ Pr	*	H	*	Bz	H	F	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IV-44

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
IV-44-1	^t Bu	H	H	H	Bz	H	F	F	OH	H	H	NH ₂
IV-44-2	^t Bu	H	H	CH ₃	Bz	H	F	F	OH	H	H	NH ₂
IV-44-3	^t Bu	H	H	CH(CH ₃) ₂	Bz	H	F	F	OH	H	H	NH ₂
IV-44-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	F	OH	H	H	NH ₂
IV-44-5	^t Bu	H	H	CH ₂ Ph	Bz	H	F	F	OH	H	H	NH ₂
IV-44-6	^t Bu	H	H	CH ₂ -indol-3-yl	Bz	H	F	F	OH	H	H	NH ₂
IV-44-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	F	OH	H	H	NH ₂
IV-44-8	^t Bu	*	H	*	Bz	H	F	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IV-45

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
IV-45-1	Ph	H	H	H	Bz	H	F	F	OH	H	H	NH ₂
IV-45-2	Ph	H	H	CH ₃	Bz	H	F	F	OH	H	H	NH ₂
IV-45-3	Ph	H	H	CH(CH ₃) ₂	Bz	H	F	F	OH	H	H	NH ₂
IV-45-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	F	OH	H	H	NH ₂
IV-45-5	Ph	H	H	CH ₂ Ph	Bz	H	F	F	OH	H	H	NH ₂
IV-45-6	Ph	H	H	CH ₂ -indol-3-yl	Bz	H	F	F	OH	H	H	NH ₂
IV-45-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	F	OH	H	H	NH ₂
IV-45-8	Ph	*	H	*	Bz	H	F	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IV-46

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
IV-46-1	p-Me—Ph	H	H	H	Bz	H	F	F	OH	H	H	NH ₂
IV-46-2	p-Me—Ph	H	H	CH ₃	Bz	H	F	F	OH	H	H	NH ₂
IV-46-3	p-Me—Ph	H	H	CH(CH ₃) ₂	Bz	H	F	F	OH	H	H	NH ₂
IV-46-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	F	OH	H	H	NH ₂
IV-46-5	p-Me—Ph	H	H	CH ₂ Ph	Bz	H	F	F	OH	H	H	NH ₂
IV-46-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	F	F	OH	H	H	NH ₂
IV-46-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	F	OH	H	H	NH ₂
IV-46-8	p-Me—Ph	*	H	*	Bz	H	F	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IV-47

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
IV-47-1	p-F—Ph	H	H	H	Bz	H	F	F	OH	H	H	NH ₂
IV-47-2	p-F—Ph	H	H	CH ₃	Bz	H	F	F	OH	H	H	NH ₂
IV-47-3	p-F—Ph	H	H	CH(CH ₃) ₂	Bz	H	F	F	OH	H	H	NH ₂
IV-47-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	F	OH	H	H	NH ₂
IV-47-5	p-F—Ph	H	H	CH ₂ Ph	Bz	H	F	F	OH	H	H	NH ₂
IV-47-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	F	F	OH	H	H	NH ₂
IV-47-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	F	OH	H	H	NH ₂
IV-47-8	p-F—Ph	*	H	*	Bz	H	F	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IV-48

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
IV-48-1	p-Cl—Ph	H	H	H	Bz	H	F	F	OH	H	H	NH ₂
IV-48-2	p-Cl—Ph	H	H	CH ₃	Bz	H	F	F	OH	H	H	NH ₂
IV-48-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	Bz	H	F	F	OH	H	H	NH ₂
IV-48-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	F	OH	H	H	NH ₂
IV-48-5	p-Cl—Ph	H	H	CH ₂ Ph	Bz	H	F	F	OH	H	H	NH ₂
IV-48-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	F	F	OH	H	H	NH ₂
IV-48-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	F	OH	H	H	NH ₂
IV-48-8	p-Cl—Ph	*	H	*	Bz	H	F	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IV-49

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
IV-49-1	p-Br—Ph	H	H	H	Bz	H	F	F	OH	H	H	NH ₂
IV-49-2	p-Br—Ph	H	H	CH ₃	Bz	H	F	F	OH	H	H	NH ₂
IV-49-3	p-Br—Ph	H	H	CH(CH ₃) ₂	Bz	H	F	F	OH	H	H	NH ₂
IV-49-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	F	OH	H	H	NH ₂
IV-49-5	p-Br—Ph	H	H	CH ₂ Ph	Bz	H	F	F	OH	H	H	NH ₂

TABLE IV-49-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
IV-49-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	F	F	OH	H	H	NH ₂
IV-49-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	F	OH	H	H	NH ₂
IV-49-8	p-Br—Ph	*	H	*	Bz	H	F	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IV-50

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
IV-50-1	p-I—Ph	H	H	H	Bz	H	F	F	OH	H	H	NH ₂
IV-50-2	p-I—Ph	H	H	CH ₃	Bz	H	F	F	OH	H	H	NH ₂
IV-50-3	p-I—Ph	H	H	CH(CH ₃) ₂	Bz	H	F	F	OH	H	H	NH ₂
IV-50-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	F	OH	H	H	NH ₂
IV-50-5	p-I—Ph	H	H	CH ₂ Ph	Bz	H	F	F	OH	H	H	NH ₂
IV-50-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	F	F	OH	H	H	NH ₂
IV-50-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	F	OH	H	H	NH ₂
IV-50-8	p-I—Ph	*	H	*	Bz	H	F	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

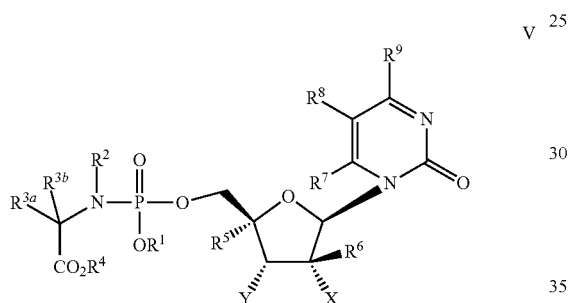


TABLE V-1

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
V-1-1	CH ₃	H	H	H	CH ₃	H	H	F	OH	H	H	NH ₂
V-1-2	CH ₃	H	H	CH ₃	CH ₃	H	H	F	OH	H	H	NH ₂
V-1-3	CH ₃	H	H	CH(CH ₃) ₂	CH ₃	H	H	F	OH	H	H	NH ₂
V-1-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	H	F	OH	H	H	NH ₂
V-1-5	CH ₃	H	H	CH ₂ Ph	CH ₃	H	H	F	OH	H	H	NH ₂
V-1-6	CH ₃	H	H	CH ₂ -indol-3-yl	CH ₃	H	H	F	OH	H	H	NH ₂
V-1-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	H	F	OH	H	H	NH ₂
V-1-8	CH ₃	*	H	*	CH ₃	H	H	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE V-2

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
V-2-1	Et	H	H	H	CH ₃	H	H	F	OH	H	H	NH ₂
V-2-2	Et	H	H	CH ₃	CH ₃	H	H	F	OH	H	H	NH ₂
V-2-3	Et	H	H	CH(CH ₃) ₂	CH ₃	H	H	F	OH	H	H	NH ₂
V-2-4	Et	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	H	F	OH	H	H	NH ₂
V-2-5	Et	H	H	CH ₂ Ph	CH ₃	H	H	F	OH	H	H	NH ₂
V-2-6	Et	H	H	CH ₂ -indol-3-yl	CH ₃	H	H	F	OH	H	H	NH ₂
V-2-7	Et	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	H	F	OH	H	H	NH ₂
V-2-8	Et	*	H	*	CH ₃	H	H	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE V-3

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
V-3-1	ⁱ Pr	H	H	H	CH ₃	H	H	F	OH	H	H	NH ₂
V-3-2	ⁱ Pr	H	H	CH ₃	CH ₃	H	H	F	OH	H	H	NH ₂
V-3-3	ⁱ Pr	H	H	CH(CH ₃) ₂	CH ₃	H	H	F	OH	H	H	NH ₂
V-3-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	H	F	OH	H	H	NH ₂
V-3-5	ⁱ Pr	H	H	CH ₂ Ph	CH ₃	H	H	F	OH	H	H	NH ₂
V-3-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	CH ₃	H	H	F	OH	H	H	NH ₂
V-3-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	H	F	OH	H	H	NH ₂
V-3-8	ⁱ Pr	*	H	*	CH ₃	H	H	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE V-4

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
V-4-1	^t Bu	H	H	H	CH ₃	H	H	F	OH	H	H	NH ₂
V-4-2	^t Bu	H	H	CH ₃	CH ₃	H	H	F	OH	H	H	NH ₂
V-4-3	^t Bu	H	H	CH(CH ₃) ₂	CH ₃	H	H	F	OH	H	H	NH ₂
V-4-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	H	F	OH	H	H	NH ₂
V-4-5	^t Bu	H	H	CH ₂ Ph	CH ₃	H	H	F	OH	H	H	NH ₂
V-4-6	^t Bu	H	H	CH ₂ -indol-3-yl	CH ₃	H	H	F	OH	H	H	NH ₂
V-4-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	H	F	OH	H	H	NH ₂
V-4-8	^t Bu	*	H	*	CH ₃	H	H	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE V-5

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
V-5-1	Ph	H	H	H	CH ₃	H	H	F	OH	H	H	NH ₂
V-5-2	Ph	H	H	CH ₃	CH ₃	H	H	F	OH	H	H	NH ₂
V-5-3	Ph	H	H	CH(CH ₃) ₂	CH ₃	H	H	F	OH	H	H	NH ₂
V-5-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	H	F	OH	H	H	NH ₂
V-5-5	Ph	H	H	CH ₂ Ph	CH ₃	H	H	F	OH	H	H	NH ₂
V-5-6	Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	H	F	OH	H	H	NH ₂
V-5-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	H	F	OH	H	H	NH ₂
V-5-8	Ph	*	H	*	CH ₃	H	H	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE V-6

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
V-6-1	p-Me-Ph	H	H	H	CH ₃	H	H	F	OH	H	H	NH ₂
V-6-2	p-Me-Ph	H	H	CH ₃	CH ₃	H	H	F	OH	H	H	NH ₂
V-6-3	p-Me-Ph	H	H	CH(CH ₃) ₂	CH ₃	H	H	F	OH	H	H	NH ₂
V-6-4	p-Me-Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	H	F	OH	H	H	NH ₂
V-6-5	p-Me-Ph	H	H	CH ₂ Ph	CH ₃	H	H	F	OH	H	H	NH ₂
V-6-6	p-Me-Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	H	F	OH	H	H	NH ₂
V-6-7	p-Me-Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	H	F	OH	H	H	NH ₂
V-6-8	p-Me-Ph	*	H	*	CH ₃	H	H	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE V-7

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
V-7-1	p-F-Ph	H	H	H	CH ₃	H	H	F	OH	H	H	NH ₂
V-7-2	p-F-Ph	H	H	CH ₃	CH ₃	H	H	F	OH	H	H	NH ₂
V-7-3	p-F-Ph	H	H	CH(CH ₃) ₂	CH ₃	H	H	F	OH	H	H	NH ₂
V-7-4	p-F-Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	H	F	OH	H	H	NH ₂
V-7-6	p-F-Ph	H	H	CH ₂ Ph	CH ₃	H	H	F	OH	H	H	NH ₂

TABLE V-7-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
V-7-7	p-F—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	H	F	OH	H	H	NH ₂
V-7-8	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	H	F	OH	H	H	NH ₂
V-7-20	p-F—Ph	*	H	*	CH ₃	H	H	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE V-8

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
V-8-1	p-Cl—Ph	H	H	H	CH ₃	H	H	F	OH	H	H	NH ₂
V-8-2	p-Cl—Ph	H	H	CH ₃	CH ₃	H	H	F	OH	H	H	NH ₂
V-8-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	H	F	OH	H	H	NH ₂
V-8-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	H	F	OH	H	H	NH ₂
V-8-5	p-Cl—Ph	H	H	CH ₂ Ph	CH ₃	H	H	F	OH	H	H	NH ₂
V-8-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	H	F	OH	H	H	NH ₂
V-8-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	H	F	OH	H	H	NH ₂
V-8-8	p-Cl—Ph	*	H	*	CH ₃	H	H	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE V-9

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
V-9-1	p-Br—Ph	H	H	H	CH ₃	H	H	F	OH	H	H	NH ₂
V-9-2	p-Br—Ph	H	H	CH ₃	CH ₃	H	H	F	OH	H	H	NH ₂
V-9-3	p-Br—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	H	F	OH	H	H	NH ₂
V-9-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	H	F	OH	H	H	NH ₂
V-9-6	p-Br—Ph	H	H	CH ₂ Ph	CH ₃	H	H	F	OH	H	H	NH ₂
V-9-7	p-Br—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	H	F	OH	H	H	NH ₂
V-9-8	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	H	F	OH	H	H	NH ₂
V-9-20	p-Br—Ph	*	H	*	CH ₃	H	H	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE V-10

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
V-10-1	p-I—Ph	H	H	H	CH ₃	H	H	F	OH	H	H	NH ₂
V-10-2	p-I—Ph	H	H	CH ₃	CH ₃	H	H	F	OH	H	H	NH ₂
V-10-3	p-I—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	H	F	OH	H	H	NH ₂
V-10-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	H	F	OH	H	H	NH ₂
V-10-5	p-I—Ph	H	H	CH ₂ Ph	CH ₃	H	H	F	OH	H	H	NH ₂
V-10-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	H	F	OH	H	H	NH ₂
V-10-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	H	F	OH	H	H	NH ₂
V-10-8	p-I—Ph	*	H	*	CH ₃	H	H	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE V-11

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
V-11-1	CH ₃	H	H	H	Et	H	H	F	OH	H	H	NH ₂
V-11-2	CH ₃	H	H	CH ₃	Et	H	H	F	OH	H	H	NH ₂
V-11-3	CH ₃	H	H	CH(CH ₃) ₂	Et	H	H	F	OH	H	H	NH ₂
V-11-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	Et	H	H	F	OH	H	H	NH ₂
V-11-5	CH ₃	H	H	CH ₂ Ph	Et	H	H	F	OH	H	H	NH ₂
V-11-6	CH ₃	H	H	CH ₂ -indol-3-yl	Et	H	H	F	OH	H	H	NH ₂
V-11-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	Et	H	H	F	OH	H	H	NH ₂
V-11-8	CH ₃	*	H	*	Et	H	H	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE V-12

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
V-12-1	Et	H	H	H	Et	H	H	F	OH	H	H	NH ₂
V-12-2	Et	H	H	CH ₃	Et	H	H	F	OH	H	H	NH ₂
V-12-3	Et	H	H	CH(CH ₃) ₂	Et	H	H	F	OH	H	H	NH ₂
V-12-4	Et	H	H	CH ₂ CH(CH ₃) ₂	Et	H	H	F	OH	H	H	NH ₂
V-12-5	Et	H	H	CH ₂ Ph	Et	H	H	F	OH	H	H	NH ₂
V-12-6	Et	H	H	CH ₂ -indol-3-yl	Et	H	H	F	OH	H	H	NH ₂
V-12-7	Et	H	H	CH ₂ CH ₂ SCH ₃	Et	H	H	F	OH	H	H	NH ₂
V-12-8	Et	*	H	*	Et	H	H	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE V-13

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
V-13-1	ⁱ Pr	H	H	H	Et	H	H	F	OH	H	H	NH ₂
V-13-2	ⁱ Pr	H	H	CH ₃	Et	H	H	F	OH	H	H	NH ₂
V-13-3	ⁱ Pr	H	H	CH(CH ₃) ₂	Et	H	H	F	OH	H	H	NH ₂
V-13-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	Et	H	H	F	OH	H	H	NH ₂
V-13-5	ⁱ Pr	H	H	CH ₂ Ph	Et	H	H	F	OH	H	H	NH ₂
V-13-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	Et	H	H	F	OH	H	H	NH ₂
V-13-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	Et	H	H	F	OH	H	H	NH ₂
V-13-8	ⁱ Pr	*	H	*	Et	H	H	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE V-14

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
V-14-1	ⁱ Bu	H	H	H	Et	H	H	F	OH	H	H	NH ₂
V-14-2	ⁱ Bu	H	H	CH ₃	Et	H	H	F	OH	H	H	NH ₂
V-14-3	ⁱ Bu	H	H	CH(CH ₃) ₂	Et	H	H	F	OH	H	H	NH ₂
V-14-4	ⁱ Bu	H	H	CH ₂ CH(CH ₃) ₂	Et	H	H	F	OH	H	H	NH ₂
V-14-5	ⁱ Bu	H	H	CH ₂ Ph	Et	H	H	F	OH	H	H	NH ₂
V-14-6	ⁱ Bu	H	H	CH ₂ -indol-3-yl	Et	H	H	F	OH	H	H	NH ₂
V-14-7	ⁱ Bu	H	H	CH ₂ CH ₂ SCH ₃	Et	H	H	F	OH	H	H	NH ₂
V-14-8	ⁱ Bu	*	H	*	Et	H	H	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE V-15

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
V-15-1	Ph	H	H	H	Et	H	H	F	OH	H	H	NH ₂
V-15-2	Ph	H	H	CH ₃	Et	H	H	F	OH	H	H	NH ₂
V-15-3	Ph	H	H	CH(CH ₃) ₂	Et	H	H	F	OH	H	H	NH ₂
V-15-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	H	F	OH	H	H	NH ₂
V-15-5	Ph	H	H	CH ₂ Ph	Et	H	H	F	OH	H	H	NH ₂
V-15-6	Ph	H	H	CH ₂ -indol-3-yl	Et	H	H	F	OH	H	H	NH ₂
V-15-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	H	F	OH	H	H	NH ₂
V-15-8	Ph	*	H	*	Et	H	H	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE V-16

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
V-16-1	p-Me-Ph	H	H	H	Et	H	H	F	OH	H	H	NH ₂
V-16-2	p-Me-Ph	H	H	CH ₃	Et	H	H	F	OH	H	H	NH ₂
V-16-3	p-Me-Ph	H	H	CH(CH ₃) ₂	Et	H	H	F	OH	H	H	NH ₂
V-16-4	p-Me-Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	H	F	OH	H	H	NH ₂
V-16-5	p-Me-Ph	H	H	CH ₂ Ph	Et	H	H	F	OH	H	H	NH ₂

TABLE V-16-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
V-16-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	Et	H	H	F	OH	H	H	NH ₂
V-16-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	H	F	OH	H	H	NH ₂
V-16-8	p-Me—Ph	*	H	*	Et	H	H	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE V-17

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
V-17-1	p-F—Ph	H	H	H	Et	H	H	F	OH	H	H	NH ₂
V-17-2	p-F—Ph	H	H	CH ₃	Et	H	H	F	OH	H	H	NH ₂
V-17-3	p-F—Ph	H	H	CH(CH ₃) ₂	Et	H	H	F	OH	H	H	NH ₂
V-17-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	H	F	OH	H	H	NH ₂
V-17-5	p-F—Ph	H	H	CH ₂ Ph	Et	H	H	F	OH	H	H	NH ₂
V-17-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	Et	H	H	F	OH	H	H	NH ₂
V-17-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	H	F	OH	H	H	NH ₂
V-17-8	p-F—Ph	*	H	*	Et	H	H	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE V-18

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
V-18-1	p-Cl—Ph	H	H	H	Et	H	H	F	OH	H	H	NH ₂
V-18-2	p-Cl—Ph	H	H	CH ₃	Et	H	H	F	OH	H	H	NH ₂
V-18-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	Et	H	H	F	OH	H	H	NH ₂
V-18-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	H	F	OH	H	H	NH ₂
V-18-5	p-Cl—Ph	H	H	CH ₂ Ph	Et	H	H	F	OH	H	H	NH ₂
V-18-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	Et	H	H	F	OH	H	H	NH ₂
V-18-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	H	F	OH	H	H	NH ₂
V-18-8	p-Cl—Ph	*	H	*	Et	H	H	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE V-19

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
V-19-1	p-Br—Ph	H	H	H	Et	H	H	F	OH	H	H	NH ₂
V-19-2	p-Br—Ph	H	H	CH ₃	Et	H	H	F	OH	H	H	NH ₂
V-19-3	p-Br—Ph	H	H	CH(CH ₃) ₂	Et	H	H	F	OH	H	H	NH ₂
V-19-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	H	F	OH	H	H	NH ₂
V-19-5	p-Br—Ph	H	H	CH ₂ Ph	Et	H	H	F	OH	H	H	NH ₂
V-19-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	Et	H	H	F	OH	H	H	NH ₂
V-19-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	H	F	OH	H	H	NH ₂
V-19-8	p-Br—Ph	*	H	*	Et	H	H	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE V-20

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
V-20-1	p-I—Ph	H	H	H	Et	H	H	F	OH	H	H	NH ₂
V-20-2	p-I—Ph	H	H	CH ₃	Et	H	H	F	OH	H	H	NH ₂
V-20-3	p-I—Ph	H	H	CH(CH ₃) ₂	Et	H	H	F	OH	H	H	NH ₂
V-20-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	H	F	OH	H	H	NH ₂
V-20-5	p-I—Ph	H	H	CH ₂ Ph	Et	H	H	F	OH	H	H	NH ₂
V-20-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	Et	H	H	F	OH	H	H	NH ₂
V-20-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	H	F	OH	H	H	NH ₂
V-20-8	p-I—Ph	*	H	*	Et	H	H	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE V-21

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
V-21-1	CH ₃	H	H	H	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-21-2	CH ₃	H	H	CH ₃	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-21-3	CH ₃	H	H	CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-21-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-21-5	CH ₃	H	H	CH ₂ Ph	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-21-6	CH ₃	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-21-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-21-8	CH ₃	*	H	*	ⁱ Pr	H	H	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE V-22

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
V-22-1	Et	H	H	H	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-22-2	Et	H	H	CH ₃	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-22-3	Et	H	H	CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-22-4	Et	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-22-5	Et	H	H	CH ₂ Ph	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-22-6	Et	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-22-7	Et	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-22-8	Et	*	H	*	ⁱ Pr	H	H	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE V-23

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
V-23-1	ⁱ Pr	H	H	H	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-23-2	ⁱ Pr	H	H	CH ₃	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-23-3	ⁱ Pr	H	H	CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-23-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-23-5	ⁱ Pr	H	H	CH ₂ Ph	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-23-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-23-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-23-8	ⁱ Pr	*	H	*	ⁱ Pr	H	H	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE V-24

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
V-24-1	^t Bu	H	H	H	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-24-2	^t Bu	H	H	CH ₃	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-24-3	^t Bu	H	H	CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-24-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-24-5	^t Bu	H	H	CH ₂ Ph	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-24-6	^t Bu	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-24-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-24-8	^t Bu	*	H	*	ⁱ Pr	H	H	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE V-25

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
V-25-1	Ph	H	H	H	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-25-2	Ph	H	H	CH ₃	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-25-3	Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH	H	H	NH ₂

TABLE V-25-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
V-25-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-25-5	Ph	H	H	CH ₂ Ph	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-25-6	Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-25-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-25-8	Ph	*	H	*	ⁱ Pr	H	H	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE V-26

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
V-26-1	p-Me—Ph	H	H	H	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-26-2	p-Me—Ph	H	H	CH ₃	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-26-3	p-Me—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-26-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-26-5	p-Me—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-26-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-26-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-26-8	p-Me—Ph	*	H	*	ⁱ Pr	H	H	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE V-27

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
V-27-1	p-F—Ph	H	H	H	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-27-2	p-F—Ph	H	H	CH ₃	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-27-3	p-F—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-27-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-27-5	p-F—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-27-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-27-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-27-8	p-F—Ph	*	H	*	ⁱ Pr	H	H	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE V-28

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
V-28-1	p-Cl—Ph	H	H	H	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-28-2	p-Cl—Ph	H	H	CH ₃	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-28-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-28-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-28-5	p-Cl—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-28-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-28-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-28-8	p-Cl—Ph	*	H	*	ⁱ Pr	H	H	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE V-29

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
V-29-1	p-Br—Ph	H	H	H	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-29-2	p-Br—Ph	H	H	CH ₃	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-29-3	p-Br—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-29-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-29-5	p-Br—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-29-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-29-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-29-8	p-Br—Ph	*	H	*	ⁱ Pr	H	H	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE V-30

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
V-30-1	p-I—Ph	H	H	H	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-30-2	p-I—Ph	H	H	CH ₃	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-30-3	p-I—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-30-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-30-5	p-I—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-30-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-30-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	H	F	OH	H	H	NH ₂
V-30-8	p-I—Ph	*	H	*	ⁱ Pr	H	H	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE V-31

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
V-31-1	CH ₃	H	H	H	ⁿ Bu	H	H	F	OH	H	H	NH ₂
V-31-2	CH ₃	H	H	CH ₃	ⁿ Bu	H	H	F	OH	H	H	NH ₂
V-31-3	CH ₃	H	H	CH(CH ₃) ₂	ⁿ Bu	H	H	F	OH	H	H	NH ₂
V-31-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	H	F	OH	H	H	NH ₂
V-31-5	CH ₃	H	H	CH ₂ Ph	ⁿ Bu	H	H	F	OH	H	H	NH ₂
V-31-6	CH ₃	H	H	CH ₂ -indol-3-yl	ⁿ Bu	H	H	F	OH	H	H	NH ₂
V-31-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	H	H	F	OH	H	H	NH ₂
V-31-8	CH ₃	*	H	*	ⁿ Bu	H	H	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE V-32

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
V-32-1	Et	H	H	H	ⁿ Bu	H	H	F	OH	H	H	NH ₂
V-32-2	Et	H	H	CH ₃	ⁿ Bu	H	H	F	OH	H	H	NH ₂
V-32-3	Et	H	H	CH(CH ₃) ₂	ⁿ Bu	H	H	F	OH	H	H	NH ₂
V-32-4	Et	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	H	F	OH	H	H	NH ₂
V-32-5	Et	H	H	CH ₂ Ph	ⁿ Bu	H	H	F	OH	H	H	NH ₂
V-32-6	Et	H	H	CH ₂ -indol-3-yl	ⁿ Bu	H	H	F	OH	H	H	NH ₂
V-32-7	Et	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	H	H	F	OH	H	H	NH ₂
V-32-8	Et	*	H	*	ⁿ Bu	H	H	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE V-33

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
V-33-1	ⁱ Pr	H	H	H	ⁿ Bu	H	H	F	OH	H	H	NH ₂
V-33-2	ⁱ Pr	H	H	CH ₃	ⁿ Bu	H	H	F	OH	H	H	NH ₂
V-33-3	ⁱ Pr	H	H	CH(CH ₃) ₂	ⁿ Bu	H	H	F	OH	H	H	NH ₂
V-33-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	H	F	OH	H	H	NH ₂
V-33-5	ⁱ Pr	H	H	CH ₂ Ph	ⁿ Bu	H	H	F	OH	H	H	NH ₂
V-33-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	ⁿ Bu	H	H	F	OH	H	H	NH ₂
V-33-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	H	H	F	OH	H	H	NH ₂
V-33-8	ⁱ Pr	*	H	*	ⁿ Bu	H	H	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE V-34

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
V-34-1	^t Bu	H	H	H	ⁿ Bu	H	H	F	OH	H	H	NH ₂
V-34-2	^t Bu	H	H	CH ₃	ⁿ Bu	H	H	F	OH	H	H	NH ₂
V-34-3	^t Bu	H	H	CH(CH ₃) ₂	ⁿ Bu	H	H	F	OH	H	H	NH ₂
V-34-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	H	F	OH	H	H	NH ₂
V-34-5	^t Bu	H	H	CH ₂ Ph	ⁿ Bu	H	H	F	OH	H	H	NH ₂

TABLE V-34-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
V-34-6	^t Bu	H	H	CH ₂ -indol-3-yl	ⁿ Bu	H	H	F	OH	H	H	NH ₂
V-34-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	H	H	F	OH	H	H	NH ₂
V-34-8	^t Bu	*	H	*	ⁿ Bu	H	H	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE V-35

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
V-35-1	Ph	H	H	H	ⁿ Bu	H	H	F	OH	H	H	NH ₂
V-35-2	Ph	H	H	CH ₃	ⁿ Bu	H	H	F	OH	H	H	NH ₂
V-35-3	Ph	H	H	CH(CH ₃) ₂	ⁿ Bu	H	H	F	OH	H	H	NH ₂
V-35-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	H	F	OH	H	H	NH ₂
V-35-5	Ph	H	H	CH ₂ Ph	ⁿ Bu	H	H	F	OH	H	H	NH ₂
V-35-6	Ph	H	H	CH ₂ -indol-3-yl	ⁿ Bu	H	H	F	OH	H	H	NH ₂
V-35-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	H	H	F	OH	H	H	NH ₂
V-35-8	Ph	*	H	*	ⁿ Bu	H	H	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE V-36

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
V-36-1	p-Me—Ph	H	H	H	ⁿ Bu	H	H	F	OH	H	H	NH ₂
V-36-2	p-Me—Ph	H	H	CH ₃	ⁿ Bu	H	H	F	OH	H	H	NH ₂
V-36-3	p-Me—Ph	H	H	CH(CH ₃) ₂	ⁿ Bu	H	H	F	OH	H	H	NH ₂
V-36-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	H	F	OH	H	H	NH ₂
V-36-5	p-Me—Ph	H	H	CH ₂ Ph	ⁿ Bu	H	H	F	OH	H	H	NH ₂
V-36-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	ⁿ Bu	H	H	F	OH	H	H	NH ₂
V-36-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	H	H	F	OH	H	H	NH ₂
V-36-8	p-Me—Ph	*	H	*	ⁿ Bu	H	H	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE V-37

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
V-37-1	p-F—Ph	H	H	H	ⁿ Bu	H	H	F	OH	H	H	NH ₂
V-37-2	p-F—Ph	H	H	CH ₃	ⁿ Bu	H	H	F	OH	H	H	NH ₂
V-37-3	p-F—Ph	H	H	CH(CH ₃) ₂	ⁿ Bu	H	H	F	OH	H	H	NH ₂
V-37-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	H	F	OH	H	H	NH ₂
V-37-5	p-F—Ph	H	H	CH ₂ Ph	ⁿ Bu	H	H	F	OH	H	H	NH ₂
V-37-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	ⁿ Bu	H	H	F	OH	H	H	NH ₂
V-37-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	H	H	F	OH	H	H	NH ₂
V-37-8	p-F—Ph	*	H	*	ⁿ Bu	H	H	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE V-38

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
V-38-1	p-Cl—Ph	H	H	H	ⁿ Bu	H	H	F	OH	H	H	NH ₂
V-38-2	p-Cl—Ph	H	H	CH ₃	ⁿ Bu	H	H	F	OH	H	H	NH ₂
V-38-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	ⁿ Bu	H	H	F	OH	H	H	NH ₂
V-38-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	H	F	OH	H	H	NH ₂
V-38-5	p-Cl—Ph	H	H	CH ₂ Ph	ⁿ Bu	H	H	F	OH	H	H	NH ₂
V-38-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	ⁿ Bu	H	H	F	OH	H	H	NH ₂
V-38-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	H	H	F	OH	H	H	NH ₂
V-38-8	p-Cl—Ph	*	H	*	ⁿ Bu	H	H	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE V-39

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
V-39-1	p-Br—Ph	H	H	H	"Bu	H	H	F	OH	H	H	NH ₂
V-39-2	p-Br—Ph	H	H	CH ₃	"Bu	H	H	F	OH	H	H	NH ₂
V-39-3	p-Br—Ph	H	H	CH(CH ₃) ₂	"Bu	H	H	F	OH	H	H	NH ₂
V-39-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	H	F	OH	H	H	NH ₂
V-39-5	p-Br—Ph	H	H	CH ₂ Ph	"Bu	H	H	F	OH	H	H	NH ₂
V-39-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	H	F	OH	H	H	NH ₂
V-39-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	H	F	OH	H	H	NH ₂
V-39-8	p-Br—Ph	*	H	*	"Bu	H	H	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE V-40

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
V-40-1	p-I—Ph	H	H	H	"Bu	H	H	F	OH	H	H	NH ₂
V-40-2	p-I—Ph	H	H	CH ₃	"Bu	H	H	F	OH	H	H	NH ₂
V-40-3	p-I—Ph	H	H	CH(CH ₃) ₂	"Bu	H	H	F	OH	H	H	NH ₂
V-40-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	H	F	OH	H	H	NH ₂
V-40-5	p-I—Ph	H	H	CH ₂ Ph	"Bu	H	H	F	OH	H	H	NH ₂
V-40-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	H	F	OH	H	H	NH ₂
V-40-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	H	F	OH	H	H	NH ₂
V-40-8	p-I—Ph	*	H	*	"Bu	H	H	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE V-41

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
V-41-1	CH ₃	H	H	H	Bz	H	H	F	OH	H	H	NH ₂
V-41-2	CH ₃	H	H	CH ₃	Bz	H	H	F	OH	H	H	NH ₂
V-41-3	CH ₃	H	H	CH(CH ₃) ₂	Bz	H	H	F	OH	H	H	NH ₂
V-41-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	H	F	OH	H	H	NH ₂
V-41-5	CH ₃	H	H	CH ₂ Ph	Bz	H	H	F	OH	H	H	NH ₂
V-41-6	CH ₃	H	H	CH ₂ -indol-3-yl	Bz	H	H	F	OH	H	H	NH ₂
V-41-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	H	F	OH	H	H	NH ₂
V-41-8	CH ₃	*	H	*	Bz	H	H	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE V-42

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
V-42-1	Et	H	H	H	Bz	H	H	F	OH	H	H	NH ₂
V-42-2	Et	H	H	CH ₃	Bz	H	H	F	OH	H	H	NH ₂
V-42-3	Et	H	H	CH(CH ₃) ₂	Bz	H	H	F	OH	H	H	NH ₂
V-42-4	Et	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	H	F	OH	H	H	NH ₂
V-42-5	Et	H	H	CH ₂ Ph	Bz	H	H	F	OH	H	H	NH ₂
V-42-6	Et	H	H	CH ₂ -indol-3-yl	Bz	H	H	F	OH	H	H	NH ₂
V-42-7	Et	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	H	F	OH	H	H	NH ₂
V-42-8	Et	*	H	*	Bz	H	H	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE V-43

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
V-43-1	ⁱ Pr	H	H	H	Bz	H	H	F	OH	H	H	NH ₂
V-43-2	ⁱ Pr	H	H	CH ₃	Bz	H	H	F	OH	H	H	NH ₂
V-43-3	ⁱ Pr	H	H	CH(CH ₃) ₂	Bz	H	H	F	OH	H	H	NH ₂

TABLE V-43-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
V-43-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	H	F	OH	H	H	NH ₂
V-43-5	ⁱ Pr	H	H	CH ₂ Ph	Bz	H	H	F	OH	H	H	NH ₂
V-43-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	Bz	H	H	F	OH	H	H	NH ₂
V-43-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	H	F	OH	H	H	NH ₂
V-43-8	ⁱ Pr	*	H	*	Bz	H	H	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE V-44

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
V-44-1	^t Bu	H	H	H	Bz	H	H	F	OH	H	H	NH ₂
V-44-2	^t Bu	H	H	CH ₃	Bz	H	H	F	OH	H	H	NH ₂
V-44-3	^t Bu	H	H	CH(CH ₃) ₂	Bz	H	H	F	OH	H	H	NH ₂
V-44-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	H	F	OH	H	H	NH ₂
V-44-5	^t Bu	H	H	CH ₂ Ph	Bz	H	H	F	OH	H	H	NH ₂
V-44-6	^t Bu	H	H	CH ₂ -indol-3-yl	Bz	H	H	F	OH	H	H	NH ₂
V-44-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	H	F	OH	H	H	NH ₂
V-44-8	^t Bu	*	H	*	Bz	H	H	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE V-45

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
V-45-1	Ph	H	H	H	Bz	H	H	F	OH	H	H	NH ₂
V-45-2	Ph	H	H	CH ₃	Bz	H	H	F	OH	H	H	NH ₂
V-45-3	Ph	H	H	CH(CH ₃) ₂	Bz	H	H	F	OH	H	H	NH ₂
V-45-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	H	F	OH	H	H	NH ₂
V-45-5	Ph	H	H	CH ₂ Ph	Bz	H	H	F	OH	H	H	NH ₂
V-45-6	Ph	H	H	CH ₂ -indol-3-yl	Bz	H	H	F	OH	H	H	NH ₂
V-45-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	H	F	OH	H	H	NH ₂
V-45-8	Ph	*	H	*	Bz	H	H	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE V-46

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
V-46-1	p-Me—Ph	H	H	H	Bz	H	H	F	OH	H	H	NH ₂
V-46-2	p-Me—Ph	H	H	CH ₃	Bz	H	H	F	OH	H	H	NH ₂
V-46-3	p-Me—Ph	H	H	CH(CH ₃) ₂	Bz	H	H	F	OH	H	H	NH ₂
V-46-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	H	F	OH	H	H	NH ₂
V-46-5	p-Me—Ph	H	H	CH ₂ Ph	Bz	H	H	F	OH	H	H	NH ₂
V-46-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	H	F	OH	H	H	NH ₂
V-46-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	H	F	OH	H	H	NH ₂
V-46-8	p-Me—Ph	*	H	*	Bz	H	H	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE V-47

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
V-47-1	p-F—Ph	H	H	H	Bz	H	H	F	OH	H	H	NH ₂
V-47-2	p-F—Ph	H	H	CH ₃	Bz	H	H	F	OH	H	H	NH ₂
V-47-3	p-F—Ph	H	H	CH(CH ₃) ₂	Bz	H	H	F	OH	H	H	NH ₂
V-47-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	H	F	OH	H	H	NH ₂
V-47-5	p-F—Ph	H	H	CH ₂ Ph	Bz	H	H	F	OH	H	H	NH ₂
V-47-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	H	F	OH	H	H	NH ₂
V-47-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	H	F	OH	H	H	NH ₂
V-47-8	p-F—Ph	*	H	*	Bz	H	H	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE V-48

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
V-48-1	p-Cl—Ph	H	H	H	Bz	H	H	F	OH	H	H	NH ₂
V-48-2	p-Cl—Ph	H	H	CH ₃	Bz	H	H	F	OH	H	H	NH ₂
V-48-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	Bz	H	H	F	OH	H	H	NH ₂
V-48-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	H	F	OH	H	H	NH ₂
V-48-5	p-Cl—Ph	H	H	CH ₂ Ph	Bz	H	H	F	OH	H	H	NH ₂
V-48-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	H	F	OH	H	H	NH ₂
V-48-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	H	F	OH	H	H	NH ₂
V-48-8	p-Cl—Ph	*	H	*	Bz	H	H	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE V-49

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
V-49-1	p-Br—Ph	H	H	H	Bz	H	H	F	OH	H	H	NH ₂
V-49-2	p-Br—Ph	H	H	CH ₃	Bz	H	H	F	OH	H	H	NH ₂
V-49-3	p-Br—Ph	H	H	CH(CH ₃) ₂	Bz	H	H	F	OH	H	H	NH ₂
V-49-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	H	F	OH	H	H	NH ₂
V-49-5	p-Br—Ph	H	H	CH ₂ Ph	Bz	H	H	F	OH	H	H	NH ₂
V-49-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	H	F	OH	H	H	NH ₂
V-49-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	H	F	OH	H	H	NH ₂
V-49-8	p-Br—Ph	*	H	*	Bz	H	H	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE V-50

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
V-50-1	p-I—Ph	H	H	H	Bz	H	H	F	OH	H	H	NH ₂
V-50-2	p-I—Ph	H	H	CH ₃	Bz	H	H	F	OH	H	H	NH ₂
V-50-3	p-I—Ph	H	H	CH(CH ₃) ₂	Bz	H	H	F	OH	H	H	NH ₂
V-50-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	H	F	OH	H	H	NH ₂
V-50-5	p-I—Ph	H	H	CH ₂ Ph	Bz	H	H	F	OH	H	H	NH ₂
V-50-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	H	F	OH	H	H	NH ₂
V-50-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	H	F	OH	H	H	NH ₂
V-50-8	p-I—Ph	*	H	*	Bz	H	H	F	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

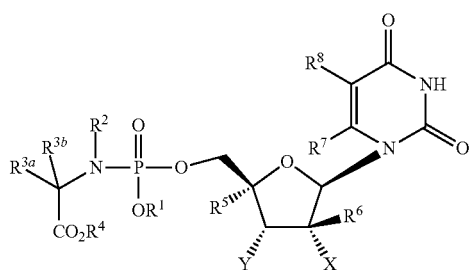


TABLE VI-1

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VI-1-1	CH ₃	H	H	H	CH ₃	H	H	F	OH	H	H
VI-1-2	CH ₃	H	H	CH ₃	CH ₃	H	H	F	OH	H	H
VI-1-3	CH ₃	H	H	CH(CH ₃) ₂	CH ₃	H	H	F	OH	H	H
VI-1-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	H	F	OH	H	H

TABLE VI-1-continued

VI	No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
45	1-4											
	VI-1-5	CH ₃	H	H	CH ₂ Ph	CH ₃	H	H	F	OH	H	H
	VI-1-6	CH ₃	H	H	CH ₂ -indol-3-yl	CH ₃	H	H	F	OH	H	H
50	1-6											
	VI-1-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	H	F	OH	H	H
	VI-1-8	CH ₃	*	H	*	CH ₃	H	H	F	OH	H	H
55	*R ² and R ^{3b} joined together by (CH ₂) ₃ to form five-membered ring.											

TABLE VI-2

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	
60	VI-2-1	Et	H	H	H	CH ₃	H	F	H	OH	H	H
	VI-2-2	Et	H	H	CH ₃	CH ₃	H	F	H	OH	H	H
	VI-2-3	Et	H	H	CH(CH ₃) ₂	CH ₃	H	F	H	OH	H	H
65	VI-2-4	Et	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	H	OH	H	H

149

TABLE VI-2-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VI-2-5	Et	H	H	CH ₂ Ph	CH ₃	H	F	H	OH	H	H
VI-2-6	Et	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	H	OH	H	H
VI-2-7	Et	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	H	OH	H	H
VI-2-8	Et	*	H	*	CH ₃	H	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VI-3

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VI-3-1	<i>i</i> Pr	H	H	H	CH ₃	H	F	H	OH	H	H
VI-3-2	<i>i</i> Pr	H	H	CH ₃	CH ₃	H	F	H	OH	H	H
VI-3-3	<i>i</i> Pr	H	H	CH(CH ₃) ₂	CH ₃	H	F	H	OH	H	H
VI-3-4	<i>i</i> Pr	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	H	OH	H	H
VI-3-5	<i>i</i> Pr	H	H	CH ₂ Ph	CH ₃	H	F	H	OH	H	H
VI-3-6	<i>i</i> Pr	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	H	OH	H	H
VI-3-7	<i>i</i> Pr	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	H	OH	H	H
VI-3-8	<i>i</i> Pr	*	H	*	CH ₃	H	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VI-4

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VI-4-1	<i>t</i> Bu	H	H	H	CH ₃	H	F	H	OH	H	H

150

TABLE VI-4-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
5 VI-4-2	<i>t</i> Bu	H	H	CH ₃	CH ₃	H	F	H	OH	H	H
VI-4-3	<i>t</i> Bu	H	H	CH(CH ₃) ₂	CH ₃	H	F	H	OH	H	H
VI-4-4	<i>t</i> Bu	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	H	OH	H	H
10 VI-4-5	<i>t</i> Bu	H	H	CH ₂ Ph	CH ₃	H	F	H	OH	H	H
VI-4-6	<i>t</i> Bu	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	H	OH	H	H
VI-4-7	<i>t</i> Bu	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	H	OH	H	H
15 VI-4-8	<i>t</i> Bu	*	H	*	CH ₃	H	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VI-5

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VI-5-1	Ph	H	H	H	CH ₃	H	F	H	OH	H	H
25 VI-5-2	Ph	H	H	CH ₃	CH ₃	H	F	H	OH	H	H
VI-5-3	Ph	H	H	CH(CH ₃) ₂	CH ₃	H	F	H	OH	H	H
VI-5-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	H	OH	H	H
30 VI-5-5	Ph	H	H	CH ₂ Ph	CH ₃	H	F	H	OH	H	H
VI-5-6	Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	H	OH	H	H
VI-5-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	H	OH	H	H
35 VI-5-8	Ph	*	H	*	CH ₃	H	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VI-6

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VI-6-1	p-Me—Ph	H	H	H	CH ₃	H	F	H	OH	H	H
VI-6-2	p-Me—Ph	H	H	CH ₃	CH ₃	H	F	H	OH	H	H
VI-6-3	p-Me—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	F	H	OH	H	H
VI-6-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	H	OH	H	H
VI-6-5	p-Me—Ph	H	H	CH ₂ Ph	CH ₃	H	F	H	OH	H	H
VI-6-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	H	OH	H	H
VI-6-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	H	OH	H	H
VI-6-8	p-Me—Ph	*	H	*	CH ₃	H	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VI-7

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VI-7-1	p-F—Ph	H	H	H	CH ₃	H	F	H	OH	H	H
VI-7-2	p-F—Ph	H	H	CH ₃	CH ₃	H	F	H	OH	H	H
VI-7-3	p-F—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	F	H	OH	H	H
VI-7-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	H	OH	H	H
VI-7-5	p-F—Ph	H	H	CH ₂ Ph	CH ₃	H	F	H	OH	H	H
VI-7-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	H	OH	H	H
VI-7-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	H	OH	H	H
VI-7-8	p-F—Ph	*	H	*	CH ₃	H	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VI-8

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VI-8-1	p-Cl—Ph	H	H	H	CH ₃	H	F	H	OH	H	H
VI-8-2	p-Cl—Ph	H	H	CH ₃	CH ₃	H	F	H	OH	H	H
VI-8-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	F	H	OH	H	H
VI-8-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	H	OH	H	H
VI-8-5	p-Cl—Ph	H	H	CH ₂ Ph	CH ₃	H	F	H	OH	H	H
VI-8-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	H	OH	H	H
VI-8-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	H	OH	H	H
VI-8-8	p-Cl—Ph	*	H	*	CH ₃	H	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VI-9

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VI-9-1	p-Br—Ph	H	H	H	CH ₃	H	F	H	OH	H	H
VI-9-2	p-Br—Ph	H	H	CH ₃	CH ₃	H	F	H	OH	H	H
VI-9-3	p-Br—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	F	H	OH	H	H
VI-9-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	H	OH	H	H
VI-9-5	p-Br—Ph	H	H	CH ₂ Ph	CH ₃	H	F	H	OH	H	H
VI-9-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	H	OH	H	H
VI-9-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	H	OH	H	H
VI-9-8	p-Br—Ph	*	H	*	CH ₃	H	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VI-10

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VI-10-1	p-I—Ph	H	H	H	CH ₃	H	F	H	OH	H	H
VI-10-2	p-I—Ph	H	H	CH ₃	CH ₃	H	F	H	OH	H	H
VI-10-3	p-I—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	F	H	OH	H	H
VI-10-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	H	OH	H	H
VI-10-5	p-I—Ph	H	H	CH ₂ Ph	CH ₃	H	F	H	OH	H	H
VI-10-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	H	OH	H	H
VI-10-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	H	OH	H	H
VI-10-8	p-I—Ph	*	H	*	CH ₃	H	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VI-11

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VI-11-1	CH ₃	H	H	H	Et	H	F	H	OH	H	H
VI-11-2	CH ₃	H	H	CH ₃	Et	H	F	H	OH	H	H
VI-11-3	CH ₃	H	H	CH(CH ₃) ₂	Et	H	F	H	OH	H	H
VI-11-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	H	OH	H	H
VI-11-5	CH ₃	H	H	CH ₂ Ph	Et	H	F	H	OH	H	H
VI-11-6	CH ₃	H	H	CH ₂ -indol-3-yl	Et	H	F	H	OH	H	H
VI-11-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	H	OH	H	H
VI-11-8	CH ₃	*	H	*	Et	H	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VI-12

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VI-12-1	Et	H	H	H	Et	H	F	H	OH	H	H
VI-12-2	Et	H	H	CH ₃	Et	H	F	H	OH	H	H
VI-12-3	Et	H	H	CH(CH ₃) ₂	Et	H	F	H	OH	H	H
VI-12-4	Et	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	H	OH	H	H
VI-12-5	Et	H	H	CH ₂ Ph	Et	H	F	H	OH	H	H

40

TABLE VI-12-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
45 VI-12-6	Et	H	H	CH ₂ -indol-3-yl	Et	H	F	H	OH	H	H
VI-12-7	Et	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	H	OH	H	H
VI-12-8	Et	*	H	*	Et	H	F	H	OH	H	H

50

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VI-13

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
55 VI-13-1	ⁱ Pr	H	H	H	Et	H	F	H	OH	H	H
VI-13-2	ⁱ Pr	H	H	CH ₃	Et	H	F	H	OH	H	H
VI-13-3	ⁱ Pr	H	H	CH(CH ₃) ₂	Et	H	F	H	OH	H	H
VI-13-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	H	OH	H	H
VI-13-5	ⁱ Pr	H	H	CH ₂ Ph	Et	H	F	H	OH	H	H
VI-13-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	Et	H	F	H	OH	H	H
VI-13-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	H	OH	H	H
VI-13-8	ⁱ Pr	*	H	*	Et	H	F	H	OH	H	H

65

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

153

TABLE VI-14

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VI-14-1	tBu	H	H	H	Et	H	F	H	OH	H	H
VI-14-2	tBu	H	H	CH ₃	Et	H	F	H	OH	H	H
VI-14-3	tBu	H	H	CH(CH ₃) ₂	Et	H	F	H	OH	H	H
VI-14-4	tBu	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	H	OH	H	H
VI-14-5	tBu	H	H	CH ₂ Ph	Et	H	F	H	OH	H	H
VI-14-6	tBu	H	H	CH ₂ -indol-3-yl	Et	H	F	H	OH	H	H
VI-14-7	tBu	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	H	OH	H	H
VI-14-8	tBu	*	H	*	Et	H	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

154

TABLE VI-15

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
5 VI-15-1	Ph	H	H	H	Et	H	F	H	OH	H	H
VI-15-2	Ph	H	H	CH ₃	Et	H	F	H	OH	H	H
VI-15-3	Ph	H	H	CH(CH ₃) ₂	Et	H	F	H	OH	H	H
VI-15-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	H	OH	H	H
VI-15-5	Ph	H	H	CH ₂ Ph	Et	H	F	H	OH	H	H
VI-15-6	Ph	H	H	CH ₂ -indol-3-yl	Et	H	F	H	OH	H	H
VI-15-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	H	OH	H	H
10 VI-15-8	Ph	*	H	*	Et	H	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VI-16

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VI-16-1	p-Me-Ph	H	H	H	Et	H	F	H	OH	H	H
VI-16-2	p-Me-Ph	H	H	CH ₃	Et	H	F	H	OH	H	H
VI-16-3	p-Me-Ph	H	H	CH(CH ₃) ₂	Et	H	F	H	OH	H	H
VI-16-4	p-Me-Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	H	OH	H	H
VI-16-5	p-Me-Ph	H	H	CH ₂ Ph	Et	H	F	H	OH	H	H
VI-16-6	p-Me-Ph	H	H	CH ₂ -indol-3-yl	Et	H	F	H	OH	H	H
VI-16-7	p-Me-Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	H	OH	H	H
VI-16-8	p-Me-Ph	*	H	*	Et	H	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VI-17

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VI-17-1	p-F-Ph	H	H	H	Et	H	F	H	OH	H	H
VI-17-2	p-F-Ph	H	H	CH ₃	Et	H	F	H	OH	H	H
VI-17-3	p-F-Ph	H	H	CH(CH ₃) ₂	Et	H	F	H	OH	H	H
VI-17-4	p-F-Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	H	OH	H	H
VI-17-5	p-F-Ph	H	H	CH ₂ Ph	Et	H	F	H	OH	H	H
VI-17-6	p-F-Ph	H	H	CH ₂ -indol-3-yl	Et	H	F	H	OH	H	H
VI-17-7	p-F-Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	H	OH	H	H
VI-17-8	p-F-Ph	*	H	*	Et	H	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VI-18

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VI-18-1	p-Cl-Ph	H	H	H	Et	H	F	H	OH	H	H
VI-18-2	p-Cl-Ph	H	H	CH ₃	Et	H	F	H	OH	H	H
VI-18-3	p-Cl-Ph	H	H	CH(CH ₃) ₂	Et	H	F	H	OH	H	H
VI-18-4	p-Cl-Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	H	OH	H	H
VI-18-5	p-Cl-Ph	H	H	CH ₂ Ph	Et	H	F	H	OH	H	H
VI-18-6	p-Cl-Ph	H	H	CH ₂ -indol-3-yl	Et	H	F	H	OH	H	H
VI-18-7	p-Cl-Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	H	OH	H	H
VI-18-8	p-Cl-Ph	*	H	*	Et	H	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VI-19

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VI-19-1	p-Br-Ph	H	H	H	Et	H	F	H	OH	H	H
VI-19-2	p-Br-Ph	H	H	CH ₃	Et	H	F	H	OH	H	H
VI-19-3	p-Br-Ph	H	H	CH(CH ₃) ₂	Et	H	F	H	OH	H	H
VI-19-4	p-Br-Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	H	OH	H	H
VI-19-5	p-Br-Ph	H	H	CH ₂ Ph	Et	H	F	H	OH	H	H
VI-19-6	p-Br-Ph	H	H	CH ₂ -indol-3-yl	Et	H	F	H	OH	H	H

TABLE VI-19-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VI-19-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	H	OH	H	H
VI-19-8	p-Br—Ph	*	H	*	Et	H	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VI-20

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VI-20-1	p-I—Ph	H	H	H	Et	H	F	H	OH	H	H
VI-20-2	p-I—Ph	H	H	CH ₃	Et	H	F	H	OH	H	H
VI-20-3	p-I—Ph	H	H	CH(CH ₃) ₂	Et	H	F	H	OH	H	H
VI-20-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	H	OH	H	H
VI-20-5	p-I—Ph	H	H	CH ₂ Ph	Et	H	F	H	OH	H	H
VI-20-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	Et	H	F	H	OH	H	H
VI-20-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	H	OH	H	H
VI-20-8	p-I—Ph	*	H	*	Et	H	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VI-21

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VI-21-1	CH ₃	H	H	H	^t Pr	H	F	H	OH	H	H
VI-21-2	CH ₃	H	H	CH ₃	^t Pr	H	F	H	OH	H	H
VI-21-3	CH ₃	H	H	CH(CH ₃) ₂	^t Pr	H	F	H	OH	H	H
VI-21-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	^t Pr	H	F	H	OH	H	H
VI-21-5	CH ₃	H	H	CH ₂ Ph	^t Pr	H	F	H	OH	H	H
VI-21-6	CH ₃	H	H	CH ₂ -indol-3-yl	^t Pr	H	F	H	OH	H	H
VI-21-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	^t Pr	H	F	H	OH	H	H
VI-21-8	CH ₃	*	H	*	^t Pr	H	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VI-22

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VI-22-1	Et	H	H	H	^t Pr	H	F	H	OH	H	H
VI-22-2	Et	H	H	CH ₃	^t Pr	H	F	H	OH	H	H
VI-22-3	Et	H	H	CH(CH ₃) ₂	^t Pr	H	F	H	OH	H	H
VI-22-4	Et	H	H	CH ₂ CH(CH ₃) ₂	^t Pr	H	F	H	OH	H	H
VI-22-5	Et	H	H	CH ₂ Ph	^t Pr	H	F	H	OH	H	H
VI-22-6	Et	H	Fl	CH ₂ -indol-3-yl	^t Pr	H	F	H	OH	H	H
VI-22-7	Et	H	H	CH ₂ CH ₂ SCH ₃	^t Pr	H	F	H	OH	H	H

TABLE VI-22-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VI-22-8	Et	*	H	*	^t Pr	H	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VI-23

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VI-23-1	ⁱ Pr	H	H	H	ⁱ Pr	H	F	H	OH	H	H
VI-23-2	ⁱ Pr	H	H	CH ₃	ⁱ Pr	H	F	H	OH	H	H
VI-23-3	ⁱ Pr	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH	H	H
VI-23-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH	H	H
VI-23-5	ⁱ Pr	H	H	CH ₂ Ph	ⁱ Pr	H	F	H	OH	H	H
VI-23-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	H	OH	H	H
VI-23-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	H	OH	H	H
VI-23-8	ⁱ Pr	*	H	*	ⁱ Pr	H	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VI-24

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VI-24-1	^t Bu	H	H	H	^t Pr	H	F	H	OH	H	H
VI-24-2	^t Bu	H	H	CH ₃	^t Pr	H	F	H	OH	H	H
VI-24-3	^t Bu	H	H	CH(CH ₃) ₂	^t Pr	H	F	H	OH	H	H
VI-24-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	^t Pr	H	F	H	OH	H	H
VI-24-5	^t Bu	H	H	CH ₂ Ph	^t Pr	H	F	H	OH	H	H
VI-24-6	^t Bu	H	H	CH ₂ -indol-3-yl	^t Pr	H	F	H	OH	H	H
VI-24-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	^t Pr	H	F	H	OH	H	H
VI-24-8	^t Bu	*	H	*	^t Pr	H	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VI-25

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VI-25-1	Ph	H	H	H	^t Pr	H	F	H	OH	H	H
VI-25-2	Ph	H	H	CH ₃	^t Pr	H	F	H	OH	H	H
VI-25-3	Ph	H	H	CH(CH ₃) ₂	^t Pr	H	F	H	OH	H	H
VI-25-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	^t Pr	H	F	H	OH	H	H
VI-25-5	Ph	H	H	CH ₂ Ph	^t Pr	H	F	H	OH	H	H
VI-25-6	Ph	H	H	CH ₂ -indol-3-yl	^t Pr	H	F	H	OH	H	H
VI-25-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	^t Pr	H	F	H	OH	H	H
VI-25-8	Ph	*	H	*	^t Pr	H	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VI-26

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VI-26-1	p-Me—Ph	H	H	H	^t Pr	H	F	H	OH	H	H
VI-26-2	p-Me—Ph	H	H	CH ₃	^t Pr	H	F	H	OH	H	H
VI-26-3	p-Me—Ph	H	H	CH(CH ₃) ₂	^t Pr	H	F	H	OH	H	H
VI-26-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	^t Pr	H	F	H	OH	H	H
VI-26-5	p-Me—Ph	H	H	CH ₂ Ph	^t Pr	H	F	H	OH	H	H

TABLE VI-26-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VI-26-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	H	OH	H	H
VI-26-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	H	OH	H	H
VI-26-8	p-Me—Ph	*	H	*	ⁱ Pr	H	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VI-27

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VI-27-1	p-F—Ph	H	H	H	ⁱ Pr	H	F	H	OH	H	H
VI-27-2	p-F—Ph	H	H	CH ₃	ⁱ Pr	H	F	H	OH	H	H
VI-27-3	p-F—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH	H	H
VI-27-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH	H	H
VI-27-5	p-F—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	F	H	OH	H	H
VI-27-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	H	OH	H	H
VI-27-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	H	OH	H	H
VI-27-8	p-F—Ph	*	H	*	ⁱ Pr	H	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VI-28

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VI-28-1	p-Cl—Ph	H	H	H	ⁱ Pr	H	F	H	OH	H	H
VI-28-2	p-Cl—Ph	H	H	CH ₃	ⁱ Pr	H	F	H	OH	H	H
VI-28-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH	H	H
VI-28-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH	H	H
VI-28-5	p-Cl—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	F	H	OH	H	H
VI-28-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	H	OH	H	H
VI-28-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	H	OH	H	H
VI-28-8	p-Cl—Ph	*	H	*	ⁱ Pr	H	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VI-29

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VI-29-1	p-Br—Ph	H	H	H	ⁱ Pr	H	F	H	OH	H	H
VI-29-2	p-Br—Ph	H	H	CH ₃	ⁱ Pr	H	F	H	OH	H	H
VI-29-3	p-Br—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH	H	H
VI-29-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH	H	H
VI-29-5	p-Br—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	F	H	OH	H	H
VI-29-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	H	OH	H	H
VI-29-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	H	OH	H	H
VI-29-8	p-Br—Ph	*	H	*	ⁱ Pr	H	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VI-30

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VI-30-1	p-I—Ph	H	H	H	ⁱ Pr	H	F	H	OH	H	H
VI-30-2	p-I—Ph	H	H	CH ₃	ⁱ Pr	H	F	H	OH	H	H
VI-30-3	p-I—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH	H	H
VI-30-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH	H	H
VI-30-5	p-I—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	F	H	OH	H	H

TABLE VI-30-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VI-30-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	H	OH	H	H
VI-30-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	H	OH	H	H
VI-30-8	p-I—Ph	*	H	*	ⁱ Pr	H	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VI-31

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VI-31-1	CH ₃	H	H	H	ⁿ Bu	H	F	H	OH	H	H
VI-31-2	CH ₃	H	H	CH ₃	ⁿ Bu	H	F	H	OH	H	H
VI-31-3	CH ₃	H	H	CH(CH ₃) ₂	ⁿ Bu	H	F	H	OH	H	H

55

TABLE VI-31-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VI-31-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	F	H	OH	H	H
VI-31-5	CH ₃	H	H	CH ₂ Ph	ⁿ Bu	H	F	H	OH	H	H
VI-31-6	CH ₃	H	H	CH ₂ -indol-3-yl	ⁿ Bu	H	F	H	OH	H	H
VI-31-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	H	F	H	OH	H	H
VI-31-8	CH ₃	*	H	*	ⁿ Bu	H	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

159

TABLE VI-32

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VI-32-1	Et	H	H	H	"Bu	H	F	H	OH	H	H
VI-32-2	Et	H	H	CH ₃	"Bu	H	F	H	OH	H	H
VI-32-3	Et	H	H	CH(CH ₃) ₂	"Bu	H	F	H	OH	H	H
VI-32-4	Et	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	H	OH	H	H
VI-32-5	Et	H	H	CH ₂ Ph	"Bu	H	F	H	OH	H	H
VI-32-6	Et	H	H	CH ₂ -indol-3-yl	"Bu	H	F	H	OH	H	H
VI-32-7	Et	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	H	OH	H	H
VI-32-8	Et	*	H	*	"Bu	H	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

160

TABLE VI-34

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
5 VI-34-1	'Bu	H	H	H	"Bu	H	F	H	OH	H	H
VI-34-2	'Bu	H	H	CH ₃	"Bu	H	F	H	OH	H	H
VI-34-3	'Bu	H	H	CH(CH ₃) ₂	"Bu	H	F	H	OH	H	H
VI-34-4	'Bu	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	H	OH	H	H
VI-34-5	'Bu	H	H	CH ₂ Ph	"Bu	H	F	H	OH	H	H
VI-34-6	'Bu	H	H	CH ₂ -indol-3-yl	"Bu	H	F	H	OH	H	H
VI-34-7	'Bu	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	H	OH	H	H
10 VI-34-8	'Bu	*	H	*	"Bu	H	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VI-33

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VI-33-1	ⁱ Pr	H	H	H	"Bu	H	F	H	OH	H	H
VI-33-2	ⁱ Pr	H	H	CH ₃	"Bu	H	F	H	OH	H	H
VI-33-3	ⁱ Pr	H	H	CH(CH ₃) ₂	"Bu	H	F	H	OH	H	H
VI-33-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	H	OH	H	H
VI-33-5	ⁱ Pr	H	H	CH ₂ Ph	"Bu	H	F	H	OH	H	H
VI-33-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	"Bu	H	F	H	OH	H	H
VI-33-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	H	OH	H	H
VI-33-8	ⁱ Pr	*	H	*	"Bu	H	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VI-35

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
15 VI-35-1	Ph	H	H	H	"Bu	H	F	H	OH	H	H
VI-35-2	Ph	H	H	CH ₃	"Bu	H	F	H	OH	H	H
VI-35-3	Ph	H	H	CH(CH ₃) ₂	"Bu	H	F	H	OH	H	H
VI-35-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	H	OH	H	H
20 VI-35-5	Ph	H	H	CH ₂ Ph	"Bu	H	F	H	OH	H	H
VI-35-6	Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	F	H	OH	H	H
VI-35-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	H	OH	H	H
VI-35-8	Ph	*	H	*	"Bu	H	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VI-36

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VI-36-1	p-Me—Ph	H	H	H	"Bu	H	F	H	OH	H	H
VI-36-2	p-Me—Ph	H	H	CH ₃	"Bu	H	F	H	OH	H	H
VI-36-3	p-Me—Ph	H	H	CH(CH ₃) ₂	"Bu	H	F	H	OH	H	H
VI-36-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	H	OH	H	H
VI-36-5	p-Me—Ph	H	H	CH ₂ Ph	"Bu	H	F	H	OH	H	H
VI-36-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	F	H	OH	H	H
VI-36-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	H	OH	H	H
VI-36-8	p-Me—Ph	*	H	*	"Bu	H	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VI-37

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VI-37-1	p-F—Ph	H	H	H	"Bu	H	F	H	OH	H	H
VI-37-2	p-F—Ph	H	H	CH ₃	"Bu	H	F	H	OH	H	H
VI-37-3	p-F—Ph	H	H	CH(CH ₃) ₂	"Bu	H	F	H	OH	H	H
VI-37-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	H	OH	H	H
VI-37-5	p-F—Ph	H	H	CH ₂ Ph	"Bu	H	F	H	OH	H	H
VI-37-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	F	H	OH	H	H
VI-37-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	H	OH	H	H
VI-37-8	p-F—Ph	*	H	*	"Bu	H	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VI-38

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VI-38-1	p-Cl—Ph	H	H	H	"Bu	H	F	H	OH	H	H
VI-38-2	p-Cl—Ph	H	H	CH ₃	"Bu	H	F	H	OH	H	H
VI-38-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	"Bu	H	F	H	OH	H	H
VI-38-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	H	OH	H	H
VI-38-5	p-Cl—Ph	H	H	CH ₂ Ph	"Bu	H	F	H	OH	H	H
VI-38-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	F	H	OH	H	H
VI-38-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	H	OH	H	H
VI-38-8	p-Cl—Ph	*	H	*	"Bu	H	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VI-39

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VI-39-1	p-Br-Ph	H	H	H	"Bu	H	F	H	OH	H	H
VI-39-2	p-Br-Ph	H	H	CH ₃	"Bu	H	F	H	OH	H	H
VI-39-3	p-Br-Ph	H	H	CH(CH ₃) ₂	"Bu	H	F	H	OH	H	H
VI-39-4	p-Br-Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	H	OH	H	H
VI-39-5	p-Br-Ph	H	H	CH ₂ Ph	"Bu	H	F	H	OH	H	H
VI-39-6	p-Br-Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	F	H	OH	H	H
VI-39-7	p-Br-Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	H	OH	H	H
VI-39-8	p-Br-Ph	*	H	*	"Bu	H	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VI-40

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VI-40-1	p-I-Ph	H	H	H	"Bu	H	F	H	OH	H	H
VI-40-2	p-I-Ph	H	H	CH ₃	"Bu	H	F	H	OH	H	H
VI-40-3	p-I-Ph	H	H	CH(CH ₃) ₂	"Bu	H	F	H	OH	H	H
VI-40-4	p-I-Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	H	OH	H	H
VI-40-5	p-I-Ph	H	H	CH ₂ Ph	"Bu	H	F	H	OH	H	H
VI-40-6	p-I-Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	F	H	OH	H	H
VI-40-7	p-I-Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	H	OH	H	H
VI-40-8	p-I-Ph	*	H	*	"Bu	H	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VI-41

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VI-41-1	CH ₃	H	H	H	Bz	H	F	H	OH	H	H
VI-41-2	CH ₃	H	H	CH ₃	Bz	H	F	H	OH	H	H
VI-41-3	CH ₃	H	H	CH(CH ₃) ₂	Bz	H	F	H	OH	H	H
VI-41-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	H	OH	H	H
VI-41-5	CH ₃	H	H	CH ₂ Ph	Bz	H	F	H	OH	H	H
VI-41-6	CH ₃	H	H	CH ₂ -indol-3-yl	Bz	H	F	H	OH	H	H
VI-41-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	H	OH	H	H
VI-41-8	CH ₃	*	H	*	Bz	H	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VI-42

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VI-42-1	Et	H	H	H	Bz	H	F	H	OH	H	H
VI-42-2	Et	H	H	CH ₃	Bz	H	F	H	OH	H	H
VI-42-3	Et	H	H	CH(CH ₃) ₂	Bz	H	F	H	OH	H	H
VI-42-4	Et	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	H	OH	H	H
VI-42-5	Et	H	H	CH ₂ Ph	Bz	H	F	H	OH	H	H
VI-42-6	Et	H	H	CH ₂ -indol-3-yl	Bz	H	F	H	OH	H	H
VI-42-7	Et	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	H	OH	H	H
VI-42-8	Et	*	H	*	Bz	H	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VI-43

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VI-43-1	ⁱ Pr	H	H	H	Bz	H	F	H	OH	H	H
VI-43-2	ⁱ Pr	H	H	CH ₃	Bz	H	F	H	OH	H	H
VI-43-3	ⁱ Pr	H	H	CH(CH ₃) ₂	Bz	H	F	H	OH	H	H
VI-43-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	H	OH	H	H
VI-43-5	ⁱ Pr	H	H	CH ₂ Ph	Bz	H	F	H	OH	H	H
VI-43-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	Bz	H	F	H	OH	H	H

TABLE VI-43-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VI-43-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	H	OH	H	H
VI-43-8	ⁱ Pr	*	H	*	Bz	H	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VI-44

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VI-44-1	"Bu	H	H	H	Bz	H	F	H	OH	H	H
VI-44-2	"Bu	H	H	CH ₃	Bz	H	F	H	OH	H	H
VI-44-3	"Bu	H	H	CH(CH ₃) ₂	Bz	H	F	H	OH	H	H
VI-44-4	"Bu	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	H	OH	H	H
VI-44-5	"Bu	H	H	CH ₂ Ph	Bz	H	F	H	OH	H	H
VI-44-6	"Bu	H	H	CH ₂ -indol-3-yl	Bz	H	F	H	OH	H	H
VI-44-7	"Bu	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	H	OH	H	H
VI-44-8	"Bu	*	H	*	Bz	H	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VI-45

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VI-45-1	Ph	H	H	H	Bz	H	F	H	OH	H	H
VI-45-2	Ph	H	H	CH ₃	Bz	H	F	H	OH	H	H
VI-45-3	Ph	H	H	CH(CH ₃) ₂	Bz	H	F	H	OH	H	H
VI-45-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	H	OH	H	H
VI-45-5	Ph	H	H	CH ₂ Ph	Bz	H	F	H	OH	H	H
VI-45-6	Ph	H	H	CH ₂ -indol-3-yl	Bz	H	F	H	OH	H	H
VI-45-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	H	OH	H	H
VI-45-8	Ph	*	H	*	Bz	H	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VI-46

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VI-46-1	p-Me—Ph	H	H	H	Bz	H	F	H	OH	H	H
VI-46-2	p-Me—Ph	H	H	CH ₃	Bz	H	F	H	OH	H	H
VI-46-3	p-Me—Ph	H	H	CH(CH ₃) ₂	Bz	H	F	H	OH	H	H
VI-46-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	H	OH	H	H
VI-46-5	p-Me—Ph	H	H	CH ₂ Ph	Bz	H	F	H	OH	H	H
VI-46-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	F	H	OH	H	H
VI-46-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	H	OH	H	H
VI-46-8	p-Me—Ph	*	H	*	Bz	H	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VI-47

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VI-47-1	p-F—Ph	H	H	H	Bz	H	F	H	OH	H	H
VI-47-2	p-F—Ph	H	H	CH ₃	Bz	H	F	H	OH	H	H
VI-47-3	p-F—Ph	H	H	CH(CH ₃) ₂	Bz	H	F	H	OH	H	H
VI-47-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	H	OH	H	H
VI-47-5	p-F—Ph	H	H	CH ₂ Ph	Bz	H	F	H	OH	H	H
VI-47-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	F	H	OH	H	H
VI-47-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	H	OH	H	H
VI-47-8	p-F—Ph	*	H	*	Bz	H	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VI-48

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VI-48-1	p-Cl—Ph	H	H	H	Bz	H	F	H	OH	H	H
VI-48-2	p-Cl—Ph	H	H	CH ₃	Bz	H	F	H	OH	H	H
VI-48-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	Bz	H	F	H	OH	H	H
VI-48-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	H	OH	H	H
VI-48-5	p-Cl—Ph	H	H	CH ₂ Ph	Bz	H	F	H	OH	H	H
VI-48-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	F	H	OH	H	H
VI-48-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	H	OH	H	H
VI-48-8	p-Cl—Ph	*	H	*	Bz	H	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VI-49

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VI-49-1	p-Br—Ph	H	H	H	Bz	H	F	H	OH	H	H
VI-49-2	p-Br—Ph	H	H	CH ₃	Bz	H	F	H	OH	H	H
VI-49-3	p-Br—Ph	H	H	CH(CH ₃) ₂	Bz	H	F	H	OH	H	H
VI-49-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	H	OH	H	H
VI-49-5	p-Br—Ph	H	H	CH ₂ Ph	Bz	H	F	H	OH	H	H
VI-49-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	F	H	OH	H	H
VI-49-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	H	OH	H	H
VI-49-8	p-Br—Ph	*	H	*	Bz	H	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VI-50

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VI-50-1	p-I—Ph	H	H	H	Bz	H	F	H	OH	H	H
VI-50-2	p-I—Ph	H	H	CH ₃	Bz	H	F	H	OH	H	H
VI-50-3	p-I—Ph	H	H	CH(CH ₃) ₂	Bz	H	F	H	OH	H	H
VI-50-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	H	OH	H	H
VI-50-5	p-I—Ph	H	H	CH ₂ Ph	Bz	H	F	H	OH	H	H

TABLE VI-50-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VI-50-6	p-I-Ph	H	H	CH ₂ -indol-3-yl	Bz	H	F	H	OH	H	H
VI-50-7	p-I-Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	H	OH	H	H
VI-50-8	p-I-Ph	*	H	*	Bz	H	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

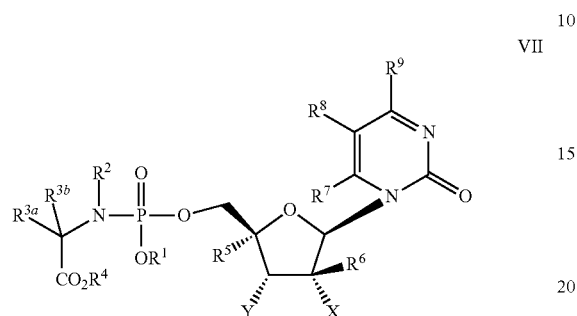


TABLE VII-1

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
VII-1-1	CH ₃	H	H	H	CH ₃	H	F	H	OH	H	H	NH ₂
VII-1-2	CH ₃	H	H	CH ₃	CH ₃	H	F	H	OH	H	H	NH ₂
VII-1-3	CH ₃	H	H	CH(CH ₃) ₂	CH ₃	H	F	H	OH	H	H	NH ₂
VII-1-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	H	OH	H	H	NH ₂
VII-1-5	CH ₃	H	H	CH ₂ Ph	CH ₃	H	F	H	OH	H	H	NH ₂
VII-1-6	CH ₃	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	H	OH	H	H	NH ₂
VII-1-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	H	OH	H	H	NH ₂
VII-1-8	CH ₃	*	H	*	CH ₃	H	F	H	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VII-2

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
VII-2-1	Et	H	H	H	CH ₃	H	F	H	OH	H	H	NH ₂
VII-2-2	Et	H	H	CH ₃	CH ₃	H	F	H	OH	H	H	NH ₂
VII-2-3	Et	H	H	CH(CH ₃) ₂	CH ₃	H	F	H	OH	H	H	NH ₂
VII-2-4	Et	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	H	OH	H	H	NH ₂
VII-2-5	Et	H	H	CH ₂ Ph	CH ₃	H	F	H	OH	H	H	NH ₂
VII-2-6	Et	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	H	OH	H	H	NH ₂
VII-2-7	Et	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	H	OH	H	H	NH ₂
VII-2-8	Et	*	H	*	CH ₃	H	F	H	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VII-3

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
VII-3-1	ⁱ Pr	H	H	H	CH ₃	H	F	H	OH	H	H	NH ₂
VII-3-2	ⁱ Pr	H	H	CH ₃	CH ₃	H	F	H	OH	H	H	NH ₂
VII-3-3	ⁱ Pr	H	H	CH(CH ₃) ₂	CH ₃	H	F	H	OH	H	H	NH ₂
VII-3-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	H	OH	H	H	NH ₂
VII-3-5	ⁱ Pr	H	H	CH ₂ Ph	CH ₃	H	F	H	OH	H	H	NH ₂
VII-3-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	H	OH	H	H	NH ₂
VII-3-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	H	OH	H	H	NH ₂
VII-3-8	ⁱ Pr	*	H	*	CH ₃	H	F	H	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

167

TABLE VII-4

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
VII-4-1	t-Bu	H	H	H	CH ₃	H	F	H	OH	H	H	NH ₂
VII-4-2	t-Bu	H	H	CH ₃	CH ₃	H	F	H	OH	H	H	NH ₂
VII-4-3	t-Bu	H	H	CH(CH ₃) ₂	CH ₃	H	F	H	OH	H	H	NH ₂
VII-4-4	t-Bu	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	H	OH	H	H	NH ₂
VII-4-5	t-Bu	H	H	CH ₂ Ph	CH ₃	H	F	H	OH	H	H	NH ₂
VII-4-6	t-Bu	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	H	OH	H	H	NH ₂
VII-4-7	t-Bu	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	H	OH	H	H	NH ₂
VII-4-8	t-Bu	*	H	*	CH ₃	H	F	H	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VII-5

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
VII-5-1	Ph	H	H	H	CH ₃	H	F	H	OH	H	H	NH ₂
VII-5-2	Ph	H	H	CH ₃	CH ₃	H	F	H	OH	H	H	NH ₂
VII-5-3	Ph	H	H	CH(CH ₃) ₂	CH ₃	H	F	H	OH	H	H	NH ₂
VII-5-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	H	OH	H	H	NH ₂
VII-5-5	Ph	H	H	CH ₂ Ph	CH ₃	H	F	H	OH	H	H	NH ₂
VII-5-6	Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	H	OH	H	H	NH ₂
VII-5-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	H	OH	H	H	NH ₂
VII-5-8	Ph	*	H	*	CH ₃	H	F	H	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VII-6

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
VII-6-1	p-Me-Ph	H	H	H	CH ₃	H	F	H	OH	H	H	NH ₂
VII-6-2	p-Me-Ph	H	H	CH ₃	CH ₃	H	F	H	OH	H	H	NH ₂
VII-6-3	p-Me-Ph	H	H	CH(CH ₃) ₂	CH ₃	H	F	H	OH	H	H	NH ₂
VII-6-4	p-Me-Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	H	OH	H	H	NH ₂
VII-6-5	p-Me-Ph	H	H	CH ₂ Ph	CH ₃	H	F	H	OH	H	H	NH ₂
VII-6-6	p-Me-Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	H	OH	H	H	NH ₂
VII-6-7	p-Me-Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	H	OH	H	H	NH ₂
VII-6-8	p-Me-Ph	*	H	*	CH ₃	H	F	H	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VII-7

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
VII-7-1	p-F-Ph	H	H	H	CH ₃	H	F	H	OH	H	H	NH ₂
VII-7-2	p-F-Ph	H	H	CH ₃	CH ₃	H	F	H	OH	H	H	NH ₂
VII-7-3	p-F-Ph	H	H	CH(CH ₃) ₂	CH ₃	H	F	H	OH	H	H	NH ₂
VII-7-4	p-F-Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	H	OH	H	H	NH ₂
VII-7-6	p-F-Ph	H	H	CH ₂ Ph	CH ₃	H	F	H	OH	H	H	NH ₂
VII-7-7	p-F-Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	H	OH	H	H	NH ₂
VII-7-8	p-F-Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	H	OH	H	H	NH ₂
VII-7-20	p-F-Ph	*	H	*	CH ₃	H	F	H	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VII-8

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
VII-8-1	p-Cl-Ph	H	H	H	CH ₃	H	F	H	OH	H	H	NH ₂
VII-8-2	p-Cl-Ph	H	H	CH ₃	CH ₃	H	F	H	OH	H	H	NH ₂
VII-8-3	p-Cl-Ph	H	H	CH(CH ₃) ₂	CH ₃	H	F	H	OH	H	H	NH ₂
VII-8-4	p-Cl-Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	H	OH	H	H	NH ₂
VII-8-5	p-Cl-Ph	H	H	CH ₂ Ph	CH ₃	H	F	H	OH	H	H	NH ₂

TABLE VII-8-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
VII-8-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	H	OH	H	H	NH ₂
VII-8-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	H	OH	H	H	NH ₂
VII-8-8	p-Cl—Ph	*	H	*	CH ₃	H	F	H	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VII-9

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
VII-9-1	p-Br—Ph	H	H	H	CH ₃	H	F	H	OH	H	H	NH ₂
VII-9-2	p-Br—Ph	H	H	CH ₃	CH ₃	H	F	H	OH	H	H	NH ₂
VII-9-3	p-Br—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	F	H	OH	H	H	NH ₂
VII-9-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	H	OH	H	H	NH ₂
VII-9-6	p-Br—Ph	H	H	CH ₂ Ph	CH ₃	H	F	H	OH	H	H	NH ₂
VII-9-7	p-Br—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	H	OH	H	H	NH ₂
VII-9-8	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	H	OH	H	H	NH ₂
VII-9-20	p-Br—Ph	*	H	*	CH ₃	H	F	H	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VII-10

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
VII-10-1	p-I—Ph	H	H	H	CH ₃	H	F	H	OH	H	H	NH ₂
VII-10-2	p-I—Ph	H	H	CH ₃	CH ₃	H	F	H	OH	H	H	NH ₂
VII-10-3	p-I—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	F	H	OH	H	H	NH ₂
VII-10-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	H	OH	H	H	NH ₂
VII-10-5	p-I—Ph	H	H	CH ₂ Ph	CH ₃	H	F	H	OH	H	H	NH ₂
VII-10-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	H	OH	H	H	NH ₂
VII-10-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	H	OH	H	H	NH ₂
VII-10-8	p-I—Ph	*	H	*	CH ₃	H	F	H	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VII-11

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
VII-11-1	CH ₃	H	H	H	Et	H	F	H	OH	H	H	NH ₂
VII-11-2	CH ₃	H	H	CH ₃	Et	H	F	H	OH	H	H	NH ₂
VII-11-3	CH ₃	H	H	CH(CH ₃) ₂	Et	H	F	H	OH	H	H	NH ₂
VII-11-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	H	OH	H	H	NH ₂
VII-11-5	CH ₃	H	H	CH ₂ Ph	Et	H	F	H	OH	H	H	NH ₂
VII-11-6	CH ₃	H	H	CH ₂ -indol-3-yl	Et	H	F	H	OH	H	H	NH ₂
VII-11-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	H	OH	H	H	NH ₂
VII-11-8	CH ₃	*	H	*	Et	H	F	H	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VII-12

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
VII-12-1	Et	H	H	H	Et	H	F	H	OH	H	H	NH ₂
VII-12-2	Et	H	H	CH ₃	Et	H	F	H	OH	H	H	NH ₂
VII-12-3	Et	H	H	CH(CH ₃) ₂	Et	H	F	H	OH	H	H	NH ₂
VII-12-4	Et	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	H	OH	H	H	NH ₂
VII-12-5	Et	H	H	CH ₂ Ph	Et	H	F	H	OH	H	H	NH ₂
VII-12-6	Et	H	H	CH ₂ -indol-3-yl	Et	H	F	H	OH	H	H	NH ₂
VII-12-7	Et	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	H	OH	H	H	NH ₂
VII-12-8	Et	*	H	*	Et	H	F	H	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VII-13

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
VII-13-1	ⁱ Pr	H	H	H	Et	H	F	H	OH	H	H	NH ₂
VII-13-2	ⁱ Pr	H	H	CH ₃	Et	H	F	H	OH	H	H	NH ₂
VII-13-3	ⁱ Pr	H	H	CH(CH ₃) ₂	Et	H	F	H	OH	H	H	NH ₂
VII-13-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	H	OH	H	H	NH ₂
VII-13-5	ⁱ Pr	H	H	CH ₂ Ph	Et	H	F	H	OH	H	H	NH ₂
VII-13-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	Et	H	F	H	OH	H	H	NH ₂
VII-13-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	H	OH	H	H	NH ₂
VII-13-8	ⁱ Pr	*	H	*	Et	H	F	H	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VII-14

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
VII-14-1	^t Bu	H	H	H	Et	H	F	H	OH	H	H	NH ₂
VII-14-2	^t Bu	H	H	CH ₃	Et	H	F	H	OH	H	H	NH ₂
VII-14-3	^t Bu	H	H	CH(CH ₃) ₂	Et	H	F	H	OH	H	H	NH ₂
VII-14-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	H	OH	H	H	NH ₂
VII-14-5	^t Bu	H	H	CH ₂ Ph	Et	H	F	H	OH	H	H	NH ₂
VII-14-6	^t Bu	H	H	CH ₂ -indol-3-yl	Et	H	F	H	OH	H	H	NH ₂
VII-14-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	H	OH	H	H	NH ₂
VII-14-8	^t Bu	*	H	*	Et	H	F	H	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VII-15

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
VII-15-1	Ph	H	H	H	Et	H	F	H	OH	H	H	NH ₂
VII-15-2	Ph	H	H	CH ₃	Et	H	F	H	OH	H	H	NH ₂
VII-15-3	Ph	H	H	CH(CH ₃) ₂	Et	H	F	H	OH	H	H	NH ₂
VII-15-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	H	OH	H	H	NH ₂
VII-15-5	Ph	H	H	CH ₂ Ph	Et	H	F	H	OH	H	H	NH ₂
VII-15-6	Ph	H	H	CH ₂ -indol-3-yl	Et	H	F	H	OH	H	H	NH ₂
VII-15-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	H	OH	H	H	NH ₂
VII-15-8	Ph	*	H	*	Et	H	F	H	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VII-16

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
VII-16-1	p-Me—Ph	H	H	H	Et	H	F	H	OH	H	H	NH ₂
VII-16-2	p-Me—Ph	H	H	CH ₃	Et	H	F	H	OH	H	H	NH ₂
VII-16-3	p-Me—Ph	H	H	CH(CH ₃) ₂	Et	H	F	H	OH	H	H	NH ₂
VII-16-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	H	OH	H	H	NH ₂
VII-16-5	p-Me—Ph	H	H	CH ₂ Ph	Et	H	F	H	OH	H	H	NH ₂
VII-16-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	Et	H	F	H	OH	H	H	NH ₂
VII-16-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	H	OH	H	H	NH ₂
VII-16-8	p-Me—Ph	*	H	*	Et	H	F	H	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VII-17

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
VII-17-1	p-F—Ph	H	H	H	Et	H	F	H	OH	H	H	NH ₂
VII-17-2	p-F—Ph	H	H	CH ₃	Et	H	F	H	OH	H	H	NH ₂
VII-17-3	p-F—Ph	H	H	CH(CH ₃) ₂	Et	H	F	H	OH	H	H	NH ₂
VII-17-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	H	OH	H	H	NH ₂
VII-17-5	p-F—Ph	H	H	CH ₂ Ph	Et	H	F	H	OH	H	H	NH ₂

TABLE VII-17-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
VII-17-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	Et	H	F	H	OH	H	H	NH ₂
VII-17-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	H	OH	H	H	NH ₂
VII-17-8	p-F—Ph	*	H	*	Et	H	F	H	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VII-18

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
VII-18-1	p-Cl—Ph	H	H	H	Et	H	F	H	OH	H	H	NH ₂
VII-18-2	p-Cl—Ph	H	H	CH ₃	Et	H	F	H	OH	H	H	NH ₂
VII-18-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	Et	H	F	H	OH	H	H	NH ₂
VII-18-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	H	OH	H	H	NH ₂
VII-18-5	p-Cl—Ph	H	H	CH ₂ Ph	Et	H	F	H	OH	H	H	NH ₂
VII-18-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	Et	H	F	H	OH	H	H	NH ₂
VII-18-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	H	OH	H	H	NH ₂
VII-18-8	p-Cl—Ph	*	H	*	Et	H	F	H	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VII-19

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
VII-19-1	p-Br—Ph	H	H	H	Et	H	F	H	OH	H	H	NH ₂
VII-19-2	p-Br—Ph	H	H	CH ₃	Et	H	F	H	OH	H	H	NH ₂
VII-19-3	p-Br—Ph	H	H	CH(CH ₃) ₂	Et	H	F	H	OH	H	H	NH ₂
VII-19-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	H	OH	H	H	NH ₂
VII-19-5	p-Br—Ph	H	H	CH ₂ Ph	Et	H	F	H	OH	H	H	NH ₂
VII-19-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	Et	H	F	H	OH	H	H	NH ₂
VII-19-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	H	OH	H	H	NH ₂
VII-19-8	p-Br—Ph	*	H	*	Et	H	F	H	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VII-20

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
VII-20-1	p-I—Ph	H	H	H	Et	H	F	H	OH	H	H	NH ₂
VII-20-2	p-I—Ph	H	H	CH ₃	Et	H	F	H	OH	H	H	NH ₂
VII-20-3	p-I—Ph	H	H	CH(CH ₃) ₂	Et	H	F	H	OH	H	H	NH ₂
VII-20-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	H	OH	H	H	NH ₂
VII-20-5	p-I—Ph	H	H	CH ₂ Ph	Et	H	F	H	OH	H	H	NH ₂
VII-20-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	Et	F	F	H	OH	H	H	NH ₂
VII-20-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	H	OH	H	H	NH ₂
VII-20-8	p-I—Ph	*	H	*	Et	H	F	H	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VII-21

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
VII-21-1	CH ₃	H	H	H	^t Pr	H	F	H	OH	H	H	NH ₂
VII-21-2	CH ₃	H	H	CH ₃	^t Pr	H	F	H	OH	H	H	NH ₂
VII-21-3	CH ₃	H	H	CH(CH ₃) ₂	^t Pr	H	F	H	OH	H	H	NH ₂
VII-21-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	^t Pr	H	F	H	OH	H	H	NH ₂
VII-21-5	CH ₃	H	H	CH ₂ Ph	^t Pr	H	F	H	OH	H	H	NH ₂
VII-21-6	CH ₃	H	H	CH ₂ -indol-3-yl	^t Pr	H	F	H	OH	H	H	NH ₂
VII-21-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	^t Pr	H	F	H	OH	H	H	NH ₂
VII-21-8	CH ₃	*	H	*	^t Pr	H	F	H	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VII-22

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
VII-22-1	Et	H	H	H	ⁱ Pr	H	F	H	OH	H	H	NH ₂
VII-22-2	Et	H	H	CH ₃	ⁱ Pr	H	F	H	OH	H	H	NH ₂
VII-22-3	Et	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH	H	H	NH ₂
VII-22-4	Et	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH	H	H	NH ₂
VII-22-5	Et	H	H	CH ₂ Ph	ⁱ Pr	H	F	H	OH	H	H	NH ₂
VII-22-6	Et	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	H	OH	H	H	NH ₂
VII-22-7	Et	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	H	OH	H	H	NH ₂
VII-22-8	Et	*	H	*	ⁱ Pr	H	F	H	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VII-23

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
VII-23-1	ⁱ Pr	H	H	H	ⁱ Pr	H	F	H	OH	H	H	NH ₂
VII-23-2	ⁱ Pr	H	H	CH ₃	ⁱ Pr	H	F	H	OH	H	H	NH ₂
VII-23-3	ⁱ Pr	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH	H	H	NH ₂
VII-23-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH	H	H	NH ₂
VII-23-5	ⁱ Pr	H	H	CH ₂ Ph	ⁱ Pr	H	F	H	OH	H	H	NH ₂
VII-23-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	H	OH	H	H	NH ₂
VII-23-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	H	OH	H	H	NH ₂
VII-23-8	ⁱ Pr	*	H	*	ⁱ Pr	H	F	H	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VII-24

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
VII-24-1	^t Bu	H	H	H	ⁱ Pr	H	F	H	OH	H	H	NH ₂
VII-24-2	^t Bu	H	H	CH ₃	ⁱ Pr	H	F	H	OH	H	H	NH ₂
VII-24-3	^t Bu	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH	H	H	NH ₂
VII-24-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH	H	H	NH ₂
VII-24-5	^t Bu	H	H	CH ₂ Ph	ⁱ Pr	H	F	H	OH	H	H	NH ₂
VII-24-6	^t Bu	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	H	OH	H	H	NH ₂
VII-24-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	H	OH	H	H	NH ₂
VII-24-8	^t Bu	*	H	*	ⁱ Pr	H	F	H	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VII-25

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
VII-25-1	Ph	H	H	H	ⁱ Pr	H	F	H	OH	H	H	NH ₂
VII-25-2	Ph	H	H	CH ₃	ⁱ Pr	H	F	H	OH	H	H	NH ₂
VII-25-3	Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH	H	H	NH ₂
VII-25-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH	H	H	NH ₂
VII-25-5	Ph	H	H	CH ₂ Ph	ⁱ Pr	H	F	H	OH	H	H	NH ₂
VII-25-6	Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	H	OH	H	H	NH ₂
VII-25-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	H	OH	H	H	NH ₂
VII-25-8	Ph	*	H	*	ⁱ Pr	H	F	H	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VII-26

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
VII-26-1	p-Me—Ph	H	H	H	ⁱ Pr	H	F	H	OH	H	H	NH ₂
VII-26-2	p-Me—Ph	H	H	CH ₃	ⁱ Pr	H	F	H	OH	H	H	NH ₂
VII-26-3	p-Me—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH	H	H	NH ₂
VII-26-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH	H	H	NH ₂
VII-26-5	p-Me—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	F	H	OH	H	H	NH ₂

TABLE VII-26-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
VII-26-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	H	OH	H	H	NH ₂
VII-26-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	H	OH	H	H	NH ₂
VII-26-8	p-Me—Ph	*	H	*	ⁱ Pr	H	F	H	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VII-27

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
VII-27-1	p-F—Ph	H	H	H	ⁱ Pr	H	F	H	OH	H	H	NH ₂
VII-27-2	p-F—Ph	H	H	CH ₃	ⁱ Pr	H	F	H	OH	H	H	NH ₂
VII-27-3	p-F—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH	H	H	NH ₂
VII-27-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH	H	H	NH ₂
VII-27-5	p-F—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	F	H	OH	H	H	NH ₂
VII-27-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	H	OH	H	H	NH ₂
VII-27-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	H	OH	H	H	NH ₂
VII-27-8	p-F—Ph	*	H	*	ⁱ Pr	H	F	H	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VII-28

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
VII-28-1	p-Cl—Ph	H	H	H	ⁱ Pr	H	F	H	OH	H	H	NH ₂
VII-28-2	p-Cl—Ph	H	H	CH ₃	ⁱ Pr	H	F	H	OH	H	H	NH ₂
VII-28-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH	H	H	NH ₂
VII-28-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH	H	H	NH ₂
VII-28-5	p-Cl—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	F	H	OH	H	H	NH ₂
VII-28-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	H	OH	H	H	NH ₂
VII-28-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	H	OH	H	H	NH ₂
VII-28-8	p-Cl—Ph	*	H	*	ⁱ Pr	H	F	H	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VII-29

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
VII-29-1	p-Br—Ph	H	H	H	ⁱ Pr	H	F	H	OH	H	H	NH ₂
VII-29-2	p-Br—Ph	H	H	CH ₃	ⁱ Pr	H	F	H	OH	H	H	NH ₂
VII-29-3	p-Br—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH	H	H	NH ₂
VII-29-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH	H	H	NH ₂
VII-29-5	p-Br—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	F	H	OH	H	H	NH ₂
VII-29-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	H	OH	H	H	NH ₂
VII-29-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	H	OH	H	H	NH ₂
VII-29-8	p-Br—Ph	*	H	*	ⁱ Pr	H	F	H	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VII-30

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
VII-30-1	p-I—Ph	H	H	H	ⁱ Pr	H	F	H	OH	H	H	NH ₂
VII-30-2	p-I—Ph	H	H	CH ₃	ⁱ Pr	H	F	H	OH	H	H	NH ₂
VII-30-3	p-I—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH	H	H	NH ₂
VII-30-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH	H	H	NH ₂
VII-30-5	p-I—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	F	H	OH	H	H	NH ₂
VII-30-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	H	OH	H	H	NH ₂
VII-30-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	H	OH	H	H	NH ₂
VII-30-8	p-I—Ph	*	H	*	ⁱ Pr	H	F	H	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VII-31

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
VII-31-1	CH ₃	H	H	H	"Bu	H	F	H	OH	H	H	NH ₂
VII-31-2	CH ₃	H	H	CH ₃	"Bu	H	F	H	OH	H	H	NH ₂
VII-31-3	CH ₃	H	H	CH(CH ₃) ₂	"Bu	H	F	H	OH	H	H	NH ₂
VII-31-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	H	OH	H	H	NH ₂
VII-31-5	CH ₃	H	H	CH ₂ Ph	"Bu	H	F	H	OH	H	H	NH ₂
VII-31-6	CH ₃	H	H	CH ₂ -indol-3-yl	"Bu	H	F	H	OH	H	H	NH ₂
VII-31-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	H	OH	H	H	NH ₂
VII-31-8	CH ₃	*	H	*	"Bu	H	F	H	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VII-32

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
VII-32-1	Et	H	H	H	"Bu	H	F	H	OH	H	H	NH ₂
VII-32-2	Et	H	H	CH ₃	"Bu	H	F	H	OH	H	H	NH ₂
VII-32-3	Et	H	H	CH(CH ₃) ₂	"Bu	H	F	H	OH	H	H	NH ₂
VII-32-4	Et	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	H	OH	H	H	NH ₂
VII-32-5	Et	H	H	CH ₂ Ph	"Bu	H	F	H	OH	H	H	NH ₂
VII-32-6	Et	H	H	CH ₂ -indol-3-yl	"Bu	H	F	H	OH	H	H	NH ₂
VII-32-7	Et	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	H	OH	H	H	NH ₂
VII-32-8	Et	*	H	*	"Bu	H	F	H	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VII-33

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
VII-33-1	ⁱ Pr	H	H	H	"Bu	H	F	H	OH	H	H	NH ₂
VII-33-2	ⁱ Pr	H	H	CH ₃	"Bu	H	F	H	OH	H	H	NH ₂
VII-33-3	ⁱ Pr	H	H	CH(CH ₃) ₂	"Bu	H	F	H	OH	H	H	NH ₂
VII-33-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	H	OH	H	H	NH ₂
VII-33-5	ⁱ Pr	H	H	CH ₂ Ph	"Bu	H	F	H	OH	H	H	NH ₂
VII-33-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	"Bu	H	F	H	OH	H	H	NH ₂
VII-33-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	H	OH	H	H	NH ₂
VII-33-8	ⁱ Pr	*	H	*	"Bu	H	F	H	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VII-34

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
VII-34-1	"Bu	H	H	H	"Bu	H	F	H	OH	H	H	NH ₂
VII-34-2	"Bu	H	H	CH ₃	"Bu	H	F	H	OH	H	H	NH ₂
VII-34-3	"Bu	H	H	CH(CH ₃) ₂	"Bu	H	F	H	OH	H	H	NH ₂
VII-34-4	"Bu	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	H	OH	H	H	NH ₂
VII-34-5	"Bu	H	H	CH ₂ Ph	"Bu	H	F	H	OH	H	H	NH ₂
VII-34-6	"Bu	H	H	CH ₂ -indol-3-yl	"Bu	H	F	H	OH	H	H	NH ₂
VII-34-7	"Bu	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	H	OH	H	H	NH ₂
VII-34-8	"Bu	*	H	*	"Bu	H	F	H	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VII-35

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
VII-35-1	Ph	H	H	H	"Bu	H	F	H	OH	H	H	NH ₂
VII-35-2	Ph	H	H	CH ₃	"Bu	H	F	H	OH	H	H	NH ₂
VII-35-3	Ph	H	H	CH(CH ₃) ₂	"Bu	H	F	H	OH	H	H	NH ₂
VII-35-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	H	OH	H	H	NH ₂
VII-35-5	Ph	H	H	CH ₂ Ph	"Bu	H	F	H	OH	H	H	NH ₂

TABLE VII-35-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
VII-35-6	Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	F	H	OH	H	H	NH ₂
VII-35-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	H	OH	H	H	NH ₂
VII-35-8	Ph	*	H	*	"Bu	H	F	H	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VII-36

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
VII-36-1	p-Me—Ph	H	H	H	"Bu	H	F	H	OH	H	H	NH ₂
VII-36-2	p-Me—Ph	H	H	CH ₃	"Bu	H	F	H	OH	H	H	NH ₂
VII-36-3	p-Me—Ph	H	H	CH(CH ₃) ₂	"Bu	H	F	H	OH	H	H	NH ₂
VII-36-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	H	OH	H	H	NH ₂
VII-36-5	p-Me—Ph	H	H	CH ₂ Ph	"Bu	H	F	H	OH	H	H	NH ₂
VII-36-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	F	H	OH	H	H	NH ₂
VII-36-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	H	OH	H	H	NH ₂
VII-36-8	p-Me—Ph	*	H	*	"Bu	H	F	H	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VII-37

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
VII-37-1	p-F—Ph	H	H	H	"Bu	H	F	H	OH	H	H	NH ₂
VII-37-2	p-F—Ph	H	H	CH ₃	"Bu	H	F	H	OH	H	H	NH ₂
VII-37-3	p-F—Ph	H	H	CH(CH ₃) ₂	"Bu	H	F	H	OH	H	H	NH ₂
VII-37-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	H	OH	H	H	NH ₂
VII-37-5	p-F—Ph	H	H	CH ₂ Ph	"Bu	H	F	H	OH	H	H	NH ₂
VII-37-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	F	H	OH	H	H	NH ₂
VII-37-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	H	OH	H	H	NH ₂
VII-37-8	p-F—Ph	*	H	*	"Bu	H	F	H	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VII-38

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
VII-38-1	p-Cl—Ph	H	H	H	"Bu	H	F	H	OH	H	H	NH ₂
VII-38-2	p-Cl—Ph	H	H	CH ₃	"Bu	H	F	H	OH	H	H	NH ₂
VII-38-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	"Bu	H	F	H	OH	H	H	NH ₂
VII-38-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	H	OH	H	H	NH ₂
VII-38-5	p-Cl—Ph	H	H	CH ₂ Ph	"Bu	H	F	H	OH	H	H	NH ₂
VII-38-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	F	H	OH	H	H	NH ₂
VII-38-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	H	OH	H	H	NH ₂
VII-38-8	p-Cl—Ph	*	H	*	"Bu	H	F	H	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VII-39

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
VII-39-1	p-Br—Ph	H	H	H	"Bu	H	F	H	OH	H	H	NH ₂
VII-39-2	p-Br—Ph	H	H	CH ₃	"Bu	H	F	H	OH	H	H	NH ₂
VII-39-3	p-Br—Ph	H	H	CH(CH ₃) ₂	"Bu	H	F	H	OH	H	H	NH ₂
VII-39-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	H	OH	H	H	NH ₂
VII-39-5	p-Br—Ph	H	H	CH ₂ Ph	"Bu	H	F	H	OH	H	H	NH ₂
VII-39-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	F	H	OH	H	H	NH ₂
VII-39-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	H	OH	H	H	NH ₂
VII-39-8	p-Br—Ph	*	H	*	"Bu	H	F	H	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VII-40

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
VII-40-1	p-I—Ph	H	H	H	"Bu	H	F	H	OH	H	H	NH ₂
VII-40-2	p-I—Ph	H	H	CH ₃	"Bu	H	F	H	OH	H	H	NH ₂
VII-40-3	p-I—Ph	H	H	CH(CH ₃) ₂	"Bu	H	F	H	OH	H	H	NH ₂
VII-40-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	H	OH	H	H	NH ₂
VII-40-5	p-I—Ph	H	H	CH ₂ Ph	"Bu	H	F	H	OH	H	H	NH ₂
VII-40-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	F	H	OH	H	H	NH ₂
VII-40-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	H	OH	H	H	NH ₂
VII-40-8	p-I—Ph	*	H	*	"Bu	H	F	H	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VII-41

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
VII-41-1	CH ₃	H	H	H	Bz	H	F	H	OH	H	H	NH ₂
VII-41-2	CH ₃	H	H	CH ₃	Bz	H	F	H	OH	H	H	NH ₂
VII-41-3	CH ₃	H	H	CH(CH ₃) ₂	Bz	H	F	H	OH	H	H	NH ₂
VII-41-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	H	OH	H	H	NH ₂
VII-41-5	CH ₃	H	H	CH ₂ Ph	Bz	H	F	H	OH	H	H	NH ₂
VII-41-6	CH ₃	H	H	CH ₂ -indol-3-yl	Bz	H	F	H	OH	H	H	NH ₂
VII-41-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	H	OH	H	H	NH ₂
VII-41-8	CH ₃	*	H	*	Bz	H	F	H	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VII-42

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
VII-42-1	Et	H	H	H	Bz	H	F	H	OH	H	H	NH ₂
VII-42-2	Et	H	H	CH ₃	Bz	H	F	H	OH	H	H	NH ₂
VII-42-3	Et	H	H	CH(CH ₃) ₂	Bz	H	F	H	OH	H	H	NH ₂
VII-42-4	Et	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	H	OH	H	H	NH ₂
VII-42-5	Et	H	H	CH ₂ Ph	Bz	H	F	H	OH	H	H	NH ₂
VII-42-6	Et	H	H	CH ₂ -indol-3-yl	Bz	H	F	H	OH	H	H	NH ₂
VII-42-7	Et	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	H	OH	H	H	NH ₂
VII-42-8	Et	*	H	*	Bz	H	F	H	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VII-43

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
VII-43-1	ⁱ Pr	H	H	H	Bz	H	F	H	OH	H	H	NH ₂
VII-43-2	ⁱ Pr	H	H	CH ₃	Bz	H	F	H	OH	H	H	NH ₂
VII-43-3	ⁱ Pr	H	H	CH(CH ₃) ₂	Bz	H	F	H	OH	H	H	NH ₂
VII-43-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	H	OH	H	H	NH ₂
VII-43-5	ⁱ Pr	H	H	CH ₂ Ph	Bz	H	F	H	OH	H	H	NH ₂
VII-43-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	Bz	H	F	H	OH	H	H	NH ₂
VII-43-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	H	OH	H	H	NH ₂
VII-43-8	ⁱ Pr	H	H	*	Bz	H	F	H	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VII-44

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
VII-44-1	^t Bu	H	H	H	Bz	H	F	H	OH	H	H	NH ₂
VII-44-2	^t Bu	H	H	CH ₃	Bz	H	F	H	OH	H	H	NH ₂
VII-44-3	^t Bu	H	H	CH(CH ₃) ₂	Bz	H	F	H	OH	H	H	NH ₂
VII-44-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	H	OH	H	H	NH ₂
VII-44-5	^t Bu	H	H	CH ₂ Ph	Bz	H	F	H	OH	H	H	NH ₂

TABLE VII-44-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
VII-44-6	^t Bu	H	H	CH ₂ -indol-3-yl	Bz	H	F	H	OH	H	H	NH ₂
VII-44-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	H	OH	H	H	NH ₂
VII-44-8	^t Bu	H	H	*	Bz	H	F	H	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VII-45

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
VII-45-1	Ph	H	H	H	Bz	H	F	H	OH	H	H	NH ₂
VII-45-2	Ph	H	H	CH ₃	Bz	H	F	H	OH	H	H	NH ₂
VII-45-3	Ph	H	H	CH(CH ₃) ₂	Bz	H	F	H	OH	H	H	NH ₂
VII-45-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	H	OH	H	H	NH ₂
VII-45-5	Ph	H	H	CH ₂ Ph	Bz	H	F	H	OH	H	H	NH ₂
VII-45-6	Ph	H	H	CH ₂ -indol-3-yl	Bz	H	F	H	OH	H	H	NH ₂
VII-45-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	H	OH	H	H	NH ₂
VII-45-8	Ph	*	H	*	Bz	H	F	H	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VII-46

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
VII-46-1	p-Me—Ph	H	H	H	Bz	H	F	H	OH	H	H	NH ₂
VII-46-2	p-Me—Ph	H	H	CH ₃	Bz	H	F	H	OH	H	H	NH ₂
VII-46-3	p-Me—Ph	H	H	CH(CH ₃) ₂	Bz	H	F	H	OH	H	H	NH ₂
VII-46-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	H	OH	H	H	NH ₂
VII-46-5	p-Me—Ph	H	H	CH ₂ Ph	Bz	H	F	H	OH	H	H	NH ₂
VII-46-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	F	H	OH	H	H	NH ₂
VII-46-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	H	OH	H	H	NH ₂
VII-46-8	p-Me—Ph	*	H	*	Bz	H	F	H	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VII-47

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
VII-47-1	p-F—Ph	H	H	H	Bz	H	F	H	OH	H	H	NH ₂
VII-47-2	p-F—Ph	H	H	CH ₃	Bz	H	F	H	OH	H	H	NH ₂
VII-47-3	p-F—Ph	H	H	CH(CH ₃) ₂	Bz	H	F	H	OH	H	H	NH ₂
VII-47-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	H	OH	H	H	NH ₂
VII-47-5	p-F—Ph	H	H	CH ₂ Ph	Bz	H	F	H	OH	H	H	NH ₂
VII-47-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	F	H	OH	H	H	NH ₂
VII-47-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	H	OH	H	H	NH ₂
VII-47-8	p-F—Ph	*	H	*	Bz	H	F	H	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VII-48

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
VII-48-1	p-Cl—Ph	H	H	H	Bz	H	F	H	OH	H	H	NH ₂
VII-48-2	p-Cl—Ph	H	H	CH ₃	Bz	H	F	H	OH	H	H	NH ₂
VII-48-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	Bz	H	F	H	OH	H	H	NH ₂
VII-48-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	H	OH	H	H	NH ₂
VII-48-5	p-Cl—Ph	H	H	CH ₂ Ph	Bz	H	F	H	OH	H	H	NH ₂
VII-48-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	F	H	OH	H	H	NH ₂
VII-48-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	H	OH	H	H	NH ₂
VII-48-8	p-Cl—Ph	*	H	*	Bz	H	F	H	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VII-49

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
VII-49-1	p-Br-Ph	H	H	H	Bz	H	F	H	OH	H	H	NH ₂
VII-49-2	p-Br-Ph	H	H	CH ₃	Bz	H	F	H	OH	H	H	NH ₂
VII-49-3	p-Br-Ph	H	H	CH(CH ₃) ₂	Bz	H	F	H	OH	H	H	NH ₂
VII-49-4	p-Br-Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	H	OH	H	H	NH ₂
VII-49-5	p-Br-Ph	H	H	CH ₂ Ph	Bz	H	F	H	OH	H	H	NH ₂
VII-49-6	p-Br-Ph	H	H	CH ₂ -indol-3-yl	Bz	H	F	H	OH	H	H	NH ₂
VII-49-7	p-Br-Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	H	OH	H	H	NH ₂
VII-49-8	p-Br-Ph	*	H	*	Bz	H	F	H	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VII-50

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸	R ⁹
VII-50-1	p-I-Ph	H	H	H	Bz	H	F	H	OH	H	H	NH ₂
VII-50-2	p-I-Ph	H	H	CH ₃	Bz	H	F	H	OH	H	H	NH ₂
VII-50-3	p-I-Ph	H	H	CH(CH ₃) ₂	Bz	H	F	H	OH	H	H	NH ₂
VII-50-4	p-I-Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	H	OH	H	H	NH ₂
VII-50-5	p-I-Ph	H	H	CH ₂ Ph	Bz	H	F	H	OH	H	H	NH ₂
VII-50-6	p-I-Ph	H	H	CH ₂ -indol-3-yl	Bz	H	F	H	OH	H	H	NH ₂
VII-50-7	p-I-Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	H	OH	H	H	NH ₂
VII-50-8	p-I-Ph	*	H	*	Bz	H	F	H	OH	H	H	NH ₂

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

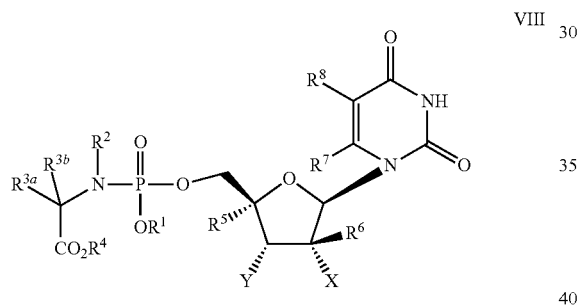


TABLE VIII-1

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VIII-1-1	CH ₃	H	H	H	CH ₃	H	CH ₃	OH	OH	H	H
VIII-1-2	CH ₃	H	H	CH ₃	CH ₃	H	CH ₃	OH	OH	H	H
VIII-1-3	CH ₃	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	OH	OH	H	H
VIII-1-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	OH	OH	H	H
VIII-1-5	CH ₃	H	H	CH ₂ Ph	CH ₃	H	CH ₃	OH	OH	H	H
VIII-1-6	CH ₃	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	OH	OH	H	H
VIII-1-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	OH	OH	H	H
VIII-1-8	CH ₃	H	*	*	CH ₃	H	CH ₃	OH	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VIII-2

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VIII-2-1	Et	H	H	H	CH ₃	H	CH ₃	OH	OH	H	H
VIII-2-2	Et	H	H	CH ₃	CH ₃	H	CH ₃	OH	OH	H	H
VIII-2-3	Et	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	OH	OH	H	H
VIII-2-4	Et	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	OH	OH	H	H
VIII-2-5	Et	H	H	CH ₂ Ph	CH ₃	H	CH ₃	OH	OH	H	H
VIII-2-6	Et	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	OH	OH	H	H

TABLE VIII-2-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VIII-2-7	Et	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	OH	OH	H	H
VIII-2-8	Et	*	H	*	CH ₃	H	CH ₃	OH	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VIII-3

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VIII-3-1	ⁱ Pr	H	H	H	CH ₃	H	CH ₃	OH	OH	H	H
VIII-3-2	ⁱ Pr	H	H	CH ₃	CH ₃	H	CH ₃	OH	OH	H	H
VIII-3-3	ⁱ Pr	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	OH	OH	H	H
VIII-3-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	OH	OH	H	H
VIII-3-5	ⁱ Pr	H	H	CH ₂ Ph	CH ₃	H	CH ₃	OH	OH	H	H
VIII-3-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	OH	OH	H	H
VIII-3-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	OH	OH	H	H
VIII-3-8	ⁱ Pr	*	H	*	CH ₃	H	CH ₃	OH	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VIII-4

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VIII-4-1	^t Bu	H	H	H	CH ₃	H	CH ₃	OH	OH	H	H
VIII-4-2	^t Bu	H	H	CH ₃	CH ₃	H	CH ₃	OH	OH	H	H
VIII-4-3	^t Bu	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	OH	OH	H	H
VIII-4-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	OH	OH	H	H
VIII-4-5	^t Bu	H	H	CH ₂ Ph	CH ₃	H	CH ₃	OH	OH	H	H
VIII-4-6	^t Bu	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	OH	OH	H	H
VIII-4-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	OH	OH	H	H
VIII-4-8	^t Bu	*	H	*	CH ₃	H	CH ₃	OH	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VIII-5

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VIII-5-1	Ph	H	H	H	CH ₃	H	CH ₃	OH	OH	H	H
VIII-5-2	Ph	H	H	CH ₃	CH ₃	H	CH ₃	OH	OH	H	H
VIII-5-3	Ph	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	OH	OH	H	H
VIII-5-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	OH	OH	H	H
VIII-5-5	Ph	H	H	CH ₂ Ph	CH ₃	H	CH ₃	OH	OH	H	H
VIII-5-6	Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	OH	OH	H	H
VIII-5-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	OH	OH	H	H
VIII-5-8	Ph	*	H	*	CH ₃	H	CH ₃	OH	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VIII-6

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VIII-6-1	p-Me—Ph	H	H	H	CH ₃	H	CH ₃	OH	OH	H	H
VIII-6-2	p-Me—Ph	H	H	CH ₃	CH ₃	H	CH ₃	OH	OH	H	H
VIII-6-3	p-Me—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	OH	OH	H	H
VIII-6-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	OH	OH	H	H
VIII-6-5	p-Me—Ph	H	H	CH ₂ Ph	CH ₃	H	CH ₃	OH	OH	H	H
VIII-6-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	OH	OH	H	H
VIII-6-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	OH	OH	H	H
VIII-6-8	p-Me—Ph	*	H	*	CH ₃	H	CH ₃	OH	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VIII-7

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VIII-7-1	p-F—Ph	H	H	H	CH ₃	H	CH ₃	OH	OH	H	H
VIII-7-2	p-F—Ph	H	H	CH ₃	CH ₃	H	CH ₃	OH	OH	H	H
VIII-7-3	p-F—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	OH	OH	H	H
VIII-7-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	OH	OH	H	H
VIII-7-6	p-F—Ph	H	H	CH ₂ Ph	CH ₃	H	CH ₃	OH	OH	H	H
VIII-7-7	p-F—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	OH	OH	H	H
VIII-7-8	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	OH	OH	H	H
VIII-7-20	p-F—Ph	*	H	*	CH ₃	H	CH ₃	OH	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VIII-8

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VIII-8-1	p-Cl—Ph	H	H	H	CH ₃	H	CH ₃	OH	OH	H	H
VIII-8-2	p-Cl—Ph	H	H	CH ₃	CH ₃	H	CH ₃	OH	OH	H	H
VIII-8-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	OH	OH	H	H
VIII-8-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	OH	OH	H	H
VIII-8-5	p-Cl—Ph	H	H	CH ₂ Ph	CH ₃	H	CH ₃	OH	OH	H	H
VIII-8-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	OH	OH	H	H
VIII-8-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	OH	OH	H	H
VIII-8-8	p-Cl—Ph	*	H	*	CH ₃	H	CH ₃	OH	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VIII-9

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VIII-9-1	p-Br—Ph	H	H	H	CH ₃	H	CH ₃	OH	OH	H	H
VIII-9-2	p-Br—Ph	H	H	CH ₃	CH ₃	H	CH ₃	OH	OH	H	H
VIII-9-3	p-Br—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	OH	OH	H	H
VIII-9-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	OH	OH	H	H
VIII-9-6	p-Br—Ph	H	H	CH ₂ Ph	CH ₃	H	CH ₃	OH	OH	H	H
VIII-9-7	p-Br—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	OH	OH	H	H
VIII-9-8	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	OH	OH	H	H
VIII-9-20	p-Br—Ph	*	H	*	CH ₃	H	CH ₃	OH	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VIII-10

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VIII-10-1	p-I—Ph	H	H	H	CH ₃	H	CH ₃	OH	OH	H	H
VIII-10-2	p-I—Ph	H	H	CH ₃	CH ₃	H	CH ₃	OH	OH	H	H
VIII-10-3	p-I—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	OH	OH	H	H
VIII-10-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	OH	OH	H	H
VIII-10-5	p-I—Ph	H	H	CH ₂ Ph	CH ₃	H	CH ₃	OH	OH	H	H
VIII-10-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	OH	OH	H	H
VIII-10-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	OH	OH	H	H
VIII-10-8	p-I—Ph	*	H	*	CH ₃	H	CH ₃	OH	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VIII-11

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VIII-11-1	CH ₃	H	H	H	Et	H	CH ₃	OH	OH	H	H
VIII-11-2	CH ₃	H	H	CH ₃	Et	H	CH ₃	OH	OH	H	H
VIII-11-3	CH ₃	H	H	CH(CH ₃) ₂	Et	H	CH ₃	OH	OH	H	H
VIII-11-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	OH	OH	H	H
VIII-11-5	CH ₃	H	H	CH ₂ Ph	Et	H	CH ₃	OH	OH	H	H

TABLE VIII-11-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VIII-11-6	CH ₃	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	OH	OH	H	H
VIII-11-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	OH	OH	H	H
VIII-11-8	CH ₃	*	H	*	Et	H	CH ₃	OH	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VIII-12

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VIII-12-1	Et	H	H	H	Et	H	CH ₃	OH	OH	H	H
VIII-12-2	Et	H	H	CH ₃	Et	H	CH ₃	OH	OH	H	H
VIII-12-3	Et	H	H	CH(CH ₃) ₂	Et	H	CH ₃	OH	OH	H	H
VIII-12-4	Et	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	OH	OH	H	H
VIII-12-5	Et	H	H	CH ₂ Ph	Et	H	CH ₃	OH	OH	H	H
VIII-12-6	Et	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	OH	OH	H	H
VIII-12-7	Et	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	OH	OH	H	H
VIII-12-8	Et	*	H	*	Et	H	CH ₃	OH	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VIII-13

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VIII-13-1	ⁱ Pr	H	H	H	Et	H	CH ₃	OH	OH	H	H
VIII-13-2	ⁱ Pr	H	H	CH ₃	Et	H	CH ₃	OH	OH	H	H
VIII-13-3	ⁱ Pr	H	H	CH(CH ₃) ₂	Et	H	CH ₃	OH	OH	H	H
VIII-13-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	OH	OH	H	H
VIII-13-5	ⁱ Pr	H	H	CH ₂ Ph	Et	H	CH ₃	OH	OH	H	H
VIII-13-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	OH	OH	H	H
VIII-13-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	OH	OH	H	H
VIII-13-8	ⁱ Pr	*	H	*	Et	H	CH ₃	OH	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VIII-14

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VIII-14-1	^t Bu	H	H	H	Et	H	CH ₃	OH	OH	H	H
VIII-14-2	^t Bu	H	H	CH ₃	Et	H	CH ₃	OH	OH	H	H
VIII-14-3	^t Bu	H	H	CH(CH ₃) ₂	Et	H	CH ₃	OH	OH	H	H
VIII-14-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	OH	OH	H	H
VIII-14-5	^t Bu	H	H	CH ₂ Ph	Et	H	CH ₃	OH	OH	H	H
VIII-14-6	^t Bu	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	OH	OH	H	H
VIII-14-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	OH	OH	H	H
VIII-14-8	^t Bu	*	H	*	Et	H	CH ₃	OH	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VIII-15

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VIII-15-1	Ph	H	H	H	Et	H	CH ₃	OH	OH	H	H
VIII-15-2	Ph	H	H	CH ₃	Et	H	CH ₃	OH	OH	H	H
VIII-15-3	Ph	H	H	CH(CH ₃) ₂	Et	H	CH ₃	OH	OH	H	H
VIII-15-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	OH	OH	H	H
VIII-15-5	Ph	H	H	CH ₂ Ph	Et	H	CH ₃	OH	OH	H	H
VIII-15-6	Ph	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	OH	OH	H	H
VIII-15-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	OH	OH	H	H
VIII-15-8	Ph	*	H	*	Et	H	CH ₃	OH	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VIII- 16

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VIII-16-1	p-Me—Ph	H	H	H	Et	H	CH ₃	OH	OH	H	H
VIII-16-2	p-Me—Ph	H	H	CH ₃	Et	H	CH ₃	OH	OH	H	H
VIII-16-3	p-Me—Ph	H	H	CH(CH ₃) ₂	Et	H	CH ₃	OH	OH	H	H
VIII-16-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	OH	OH	H	H
VIII-16-5	p-Me—Ph	H	H	CH ₂ Ph	Et	H	CH ₃	OH	OH	H	H
VIII-16-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	OH	OH	H	H
VIII-16-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	OH	OH	H	H
VIII-16-8	p-Me—Ph	*	H	*	Et	H	CH ₃	OH	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VIII-17

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VIII-17-1	p-F—Ph	H	H	H	Et	H	CH ₃	OH	OH	H	H
VIII-17-2	p-F—Ph	H	H	CH ₃	Et	H	CH ₃	OH	OH	H	H
VIII-17-3	p-F—Ph	H	H	CH(CH ₃) ₂	Et	H	CH ₃	OH	OH	H	H
VIII-17-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	OH	OH	H	H
VIII-17-5	p-F—Ph	H	H	CH ₂ Ph	Et	H	CH ₃	OH	OH	H	H
VIII-17-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	OH	OH	H	H
VIII-17-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	OH	OH	H	H
VIII-17-8	p-F—Ph	*	H	*	Et	H	CH ₃	OH	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VIII-18

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VIII-18-1	p-Cl—Ph	H	H	H	Et	H	CH ₃	OH	OH	H	H
VIII-18-2	p-Cl—Ph	H	H	CH ₃	Et	H	CH ₃	OH	OH	H	H
VIII-18-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	Et	H	CH ₃	OH	OH	H	H
VIII-18-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	OH	OH	H	H
VIII-18-5	p-Cl—Ph	H	H	CH ₂ Ph	Et	H	CH ₃	OH	OH	H	H
VIII-18-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	OH	OH	H	H
VIII-18-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	OH	OH	H	H
VIII-18-8	p-Cl—Ph	*	H	*	Et	H	CH ₃	OH	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VIII- 19

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VIII-19-1	p-Br—Ph	H	H	H	Et	H	CH ₃	OH	OH	H	H
VIII-19-2	p-Br—Ph	H	H	CH ₃	Et	H	CH ₃	OH	OH	H	H
VIII-19-3	p-Br—Ph	H	H	CH(CH ₃) ₂	Et	H	CH ₃	OH	OH	H	H
VIII-19-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	OH	OH	H	H
VIII-19-5	p-Br—Ph	H	H	CH ₂ Ph	Et	H	CH ₃	OH	OH	H	H
VIII-19-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	OH	OH	H	H
VIII-19-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	OH	OH	H	H
VIII-19-8	p-Br—Ph	*	H	*	Et	H	CH ₃	OH	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VIII-20

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VIII-20-1	p-I—Ph	H	H	H	Et	H	CH ₃	OH	OH	H	H
VIII-20-2	p-I—Ph	H	H	CH ₃	Et	H	CH ₃	OH	OH	H	H
VIII-20-3	p-I—Ph	H	H	CH(CH ₃) ₂	Et	H	CH ₃	OH	OH	H	H

TABLE VIII-20-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VIII-20-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	OH	OH	H	H
VIII-20-5	p-I—Ph	H	H	CH ₂ Ph	Et	H	CH ₃	OH	OH	H	H
VIII-20-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	OH	OH	H	H
VIII-20-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	OH	OH	H	H
VIII-20-8	p-I—Ph	*	H	*	Et	H	CH ₃	OH	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VIII-21

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VIII-21-1	CH ₃	H	H	H	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-21-2	CH ₃	H	H	CH ₃	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-21-3	CH ₃	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-21-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-21-5	CH ₃	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-21-6	CH ₃	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-21-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-21-8	CH ₃	*	H	*	ⁱ Pr	H	CH ₃	OH	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VIII-22

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VIII-22-1	Et	H	H	H	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-22-2	Et	H	H	CH ₃	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-22-3	Et	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-22-4	Et	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-22-5	Et	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-22-6	Et	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-22-7	Et	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-22-8	Et	*	H	*	ⁱ Pr	H	CH ₃	OH	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VIII-23

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VIII-23-1	ⁱ Pr	H	H	H	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-23-2	ⁱ Pr	H	H	CH ₃	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-23-3	ⁱ Pr	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-23-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-23-5	ⁱ Pr	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-23-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-23-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-23-8	ⁱ Pr	*	H	*	ⁱ Pr	H	CH ₃	OH	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VIII-24

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VIII-24-1	^t Bu	H	H	H	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-24-2	^t Bu	H	H	CH ₃	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-24-3	^t Bu	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-24-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-24-5	^t Bu	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-24-6	^t Bu	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-24-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-24-8	^t Bu	*	H	*	ⁱ Pr	H	CH ₃	OH	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VIII-25

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VIII-25-1	Ph	H	H	H	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-25-2	Ph	H	H	CH ₃	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-25-3	Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-25-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-25-5	Ph	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-25-6	Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-25-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-25-8	Ph	*	H	*	ⁱ Pr	H	CH ₃	OH	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VIII-26

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VIII-26-1	p-Me—Ph	H	H	H	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-26-2	p-Me—Ph	H	H	CH ₃	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-26-3	p-Me—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-26-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-26-5	p-Me—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-26-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-26-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-26-8	p-Me—Ph	*	H	*	ⁱ Pr	H	CH ₃	OH	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VIII-27

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VIII-27-1	p-F—Ph	H	H	H	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-27-2	p-F—Ph	H	H	CH ₃	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-27-3	p-F—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-27-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-27-5	p-F—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-27-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-27-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-27-8	p-F—Ph	*	H	*	ⁱ Pr	H	CH ₃	OH	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VIII-28

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VIII-28-1	p-Cl—Ph	H	H	H	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-28-2	p-Cl—Ph	H	H	CH ₃	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-28-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-28-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-28-5	p-Cl—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-28-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-28-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-28-8	p-Cl—Ph	*	H	*	ⁱ Pr	H	CH ₃	OH	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VIII-29

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VIII-29-1	p-Br—Ph	H	H	H	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-29-2	p-Br—Ph	H	H	CH ₃	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-29-3	p-Br—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-29-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-29-5	p-Br—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	OH	OH	H	H

TABLE VIII-29-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VIII-29-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-29-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-29-8	p-Br—Ph	*	H	*	ⁱ Pr	H	CH ₃	OH	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VIII-30

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VIII-30-1	p-I—Ph	H	H	H	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-30-2	p-I—Ph	H	H	CH ₃	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-30-3	p-I—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-30-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-30-5	p-I—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-30-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-30-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	OH	OH	H	H
VIII-30-8	p-I—Ph	*	H	*	ⁱ Pr	H	CH ₃	OH	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VIII-31

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VIII-31-1	CH ₃	H	H	H	ⁿ Bu	H	CH ₃	OH	OH	H	H
VIII-31-2	CH ₃	H	H	CH ₃	ⁿ Bu	H	CH ₃	OH	OH	H	H
VIII-31-3	CH ₃	H	H	CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	OH	OH	H	H
VIII-31-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	OH	OH	H	H
VIII-31-5	CH ₃	H	H	CH ₂ Ph	ⁿ Bu	H	CH ₃	OH	OH	H	H
VIII-31-6	CH ₃	H	H	CH ₂ -indol-3-yl	ⁿ Bu	H	CH ₃	OH	OH	H	H
VIII-31-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	H	CH ₃	OH	OH	H	H
VIII-31-8	CH ₃	*	H	*	ⁿ Bu	H	CH ₃	OH	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VIII-32

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VIII-32-1	Et	H	H	H	ⁿ Bu	H	CH ₃	OH	OH	H	H
VIII-32-2	Et	H	H	CH ₃	ⁿ Bu	H	CH ₃	OH	OH	H	H
VIII-32-3	Et	H	H	CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	OH	OH	H	H
VIII-32-4	Et	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	OH	OH	H	H
VIII-32-5	Et	H	H	CH ₂ Ph	ⁿ Bu	H	CH ₃	OH	OH	H	H
VIII-32-6	Et	H	H	CH ₂ -indol-3-yl	ⁿ Bu	H	CH ₃	OH	OH	H	H
VIII-32-7	Et	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	H	CH ₃	OH	OH	H	H
VIII-32-8	Et	*	H	*	ⁿ Bu	H	CH ₃	OH	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VIII-33

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VIII-33-1	ⁱ Pr	H	H	H	ⁿ Bu	H	CH ₃	OH	OH	H	H
VIII-33-2	ⁱ Pr	H	H	CH ₃	ⁿ Bu	H	CH ₃	OH	OH	H	H
VIII-33-3	ⁱ Pr	H	H	CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	OH	OH	H	H
VIII-33-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	OH	OH	H	H
VIII-33-5	ⁱ Pr	H	H	CH ₂ Ph	ⁿ Bu	H	CH ₃	OH	OH	H	H
VIII-33-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	ⁿ Bu	H	CH ₃	OH	OH	H	H
VIII-33-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	H	CH ₃	OH	OH	H	H
VIII-33-8	ⁱ Pr	*	H	*	ⁿ Bu	H	CH ₃	OH	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VIII-34

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VIII-34-1	^t Bu	H	H	H	^t Bu	H	CH ₃	OH	OH	H	H
VIII-34-2	^t Bu	H	H	CH ₃	^t Bu	H	CH ₃	OH	OH	H	H
VIII-34-3	^t Bu	H	H	CH(CH ₃) ₂	^t Bu	H	CH ₃	OH	OH	H	H
VIII-34-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	^t Bu	H	CH ₃	OH	OH	H	H
VIII-34-5	^t Bu	H	H	CH ₂ Ph	^t Bu	H	CH ₃	OH	OH	H	H
VIII-34-6	^t Bu	H	H	CH ₂ -indol-3-yl	^t Bu	H	CH ₃	OH	OH	H	H
VIII-34-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	^t Bu	H	CH ₃	OH	OH	H	H
VIII-34-8	^t Bu	*	H	*	^t Bu	H	CH ₃	OH	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VIII-35

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VIII-35-1	Ph	H	H	H	^t Bu	H	CH ₃	OH	OH	H	H
VIII-35-2	Ph	H	H	CH ₃	^t Bu	H	CH ₃	OH	OH	H	H
VIII-35-3	Ph	H	H	CH(CH ₃) ₂	^t Bu	H	CH ₃	OH	OH	H	H
VIII-35-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	^t Bu	H	CH ₃	OH	OH	H	H
VIII-35-5	Ph	H	H	CH ₂ Ph	^t Bu	H	CH ₃	OH	OH	H	H
VIII-35-6	Ph	H	H	CH ₂ -indol-3-yl	^t Bu	H	CH ₃	OH	OH	H	H
VIII-35-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	^t Bu	H	CH ₃	OH	OH	H	H
VIII-35-8	Ph	*	H	*	^t Bu	H	CH ₃	OH	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VIII-36

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VIII-36-1	p-Me—Ph	H	H	H	^t Bu	H	CH ₃	OH	OH	H	H
VIII-36-2	p-Me—Ph	H	H	CH ₃	^t Bu	H	CH ₃	OH	OH	H	H
VIII-36-3	p-Me—Ph	H	H	CH(CH ₃) ₂	^t Bu	H	CH ₃	OH	OH	H	H
VIII-36-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	^t Bu	H	CH ₃	OH	OH	H	H
VIII-36-5	p-Me—Ph	H	H	CH ₂ Ph	^t Bu	H	CH ₃	OH	OH	H	H
VIII-36-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	^t Bu	H	CH ₃	OH	OH	H	H
VIII-36-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	^t Bu	H	CH ₃	OH	OH	H	H
VIII-36-8	p-Me—Ph	*	H	*	^t Bu	H	CH ₃	OH	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VIII-37

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VIII-37-1	p-F—Ph	H	H	H	^t Bu	H	CH ₃	OH	OH	H	H
VIII-37-2	p-F—Ph	H	H	CH ₃	^t Bu	H	CH ₃	OH	OH	H	H
VIII-37-3	p-F—Ph	H	H	CH(CH ₃) ₂	^t Bu	H	CH ₃	OH	OH	H	H
VIII-37-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	^t Bu	H	CH ₃	OH	OH	H	H
VIII-37-5	p-F—Ph	H	H	CH ₂ Ph	^t Bu	H	CH ₃	OH	OH	H	H
VIII-37-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	^t Bu	H	CH ₃	OH	OH	H	H
VIII-37-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	^t Bu	H	CH ₃	OH	OH	H	H
VIII-37-8	p-F—Ph	*	H	*	^t Bu	H	CH ₃	OH	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VIII-38

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VIII-38-1	p-Cl—Ph	H	H	H	^t Bu	H	CH ₃	OH	OH	H	H
VIII-38-2	p-Cl—Ph	H	H	CH ₃	^t Bu	H	CH ₃	OH	OH	H	H
VIII-38-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	^t Bu	H	CH ₃	OH	OH	H	H

TABLE VIII-38-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VIII-38-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	CH ₃	OH	OH	H	H
VIII-38-5	p-Cl—Ph	H	H	CH ₂ Ph	"Bu	H	CH ₃	OH	OH	H	H
VIII-38-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	CH ₃	OH	OH	H	H
VIII-38-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	CH ₃	OH	OH	H	H
VIII-38-8	p-Cl—Ph	*	H	*	"Bu	H	CH ₃	OH	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VIII-39

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VIII-39-1	p-Br—Ph	H	H	H	"Bu	H	CH ₃	OH	OH	H	H
VIII-39-2	p-Br—Ph	H	H	CH ₃	"Bu	H	CH ₃	OH	OH	H	H
VIII-39-3	p-Br—Ph	H	H	CH(CH ₃) ₂	"Bu	H	CH ₃	OH	OH	H	H
VIII-39-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	CH ₃	OH	OH	H	H
VIII-39-5	p-Br—Ph	H	H	CH ₂ Ph	"Bu	H	CH ₃	OH	OH	H	H
VIII-39-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	CH ₃	OH	OH	H	H
VIII-39-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	CH ₃	OH	OH	H	H
VIII-39-8	p-Br—Ph	*	H	*	"Bu	H	CH ₃	OH	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VIII-40

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VIII-40-1	p-I—Ph	H	H	H	"Bu	H	CH ₃	OH	OH	H	H
VIII-40-2	p-I—Ph	H	H	CH ₃	"Bu	H	CH ₃	OH	OH	H	H
VIII-40-3	p-I—Ph	H	H	CH(CH ₃) ₂	"Bu	H	CH ₃	OH	OH	H	H
VIII-40-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	CH ₃	OH	OH	H	H
VIII-40-5	p-I—Ph	H	H	CH ₂ Ph	"Bu	H	CH ₃	OH	OH	H	H
VIII-40-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	CH ₃	OH	OH	H	H
VIII-40-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	CH ₃	OH	OH	H	H
VIII-40-8	p-I—Ph	*	H	*	"Bu	H	CH ₃	OH	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VIII-41

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VIII-41-1	CH ₃	H	H	H	Bz	H	CH ₃	OH	OH	H	H
VIII-41-2	CH ₃	H	H	CH ₃	Bz	H	CH ₃	OH	OH	H	H
VIII-41-3	CH ₃	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	OH	OH	H	H
VIII-41-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	OH	OH	H	H
VIII-41-5	CH ₃	H	H	CH ₂ Ph	Bz	H	CH ₃	OH	OH	H	H
VIII-41-6	CH ₃	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	OH	OH	H	H
VIII-41-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	OH	OH	H	H
VIII-41-8	CH ₃	*	H	*	Bz	H	CH ₃	OH	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VIII-42

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VIII-42-1	Et	H	H	H	Bz	H	CH ₃	OH	OH	H	H
VIII-42-2	Et	H	H	CH ₃	Bz	H	CH ₃	OH	OH	H	H
VIII-42-3	Et	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	OH	OH	H	H
VIII-42-4	Et	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	OH	OH	H	H
VIII-42-5	Et	H	H	CH ₂ Ph	Bz	H	CH ₃	OH	OH	H	H
VIII-42-6	Et	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	OH	OH	H	H
VIII-42-7	Et	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	OH	OH	H	H
VIII-42-8	Et	*	H	*	Bz	H	CH ₃	OH	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VIII-43

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VIII-43-1	ⁱ Pr	H	H	H	Bz	H	CH ₃	OH	OH	H	H
VIII-43-2	ⁱ Pr	H	H	CH ₃	Bz	H	CH ₃	OH	OH	H	H
VIII-43-3	ⁱ Pr	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	OH	OH	H	H
VIII-43-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	OH	OH	H	H
VIII-43-5	ⁱ Pr	H	H	CH ₂ Ph	Bz	H	CH ₃	OH	OH	H	H
VIII-43-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	OH	OH	H	H
VIII-43-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	OH	OH	H	H
VIII-43-8	ⁱ Pr	*	H	*	Bz	H	CH ₃	OH	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VIII-44

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VIII-44-1	^t Bu	H	H	H	Bz	H	CH ₃	OH	OH	H	H
VIII-44-2	^t Bu	H	H	CH ₃	Bz	H	CH ₃	OH	OH	H	H
VIII-44-3	^t Bu	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	OH	OH	H	H
VIII-44-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	OH	OH	H	H
VIII-44-5	^t Bu	H	H	CH ₂ Ph	Bz	H	CH ₃	OH	OH	H	H
VIII-44-6	^t Bu	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	OH	OH	H	H
VIII-44-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	OH	OH	H	H
VIII-44-8	^t Bu	*	H	*	Bz	H	CH ₃	OH	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VIII-45

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VIII-45-1	Ph	H	H	H	Bz	H	CH ₃	OH	OH	H	H
VIII-45-2	Ph	H	H	CH ₃	Bz	H	CH ₃	OH	OH	H	H
VIII-45-3	Ph	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	OH	OH	H	H
VIII-45-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	OH	OH	Fl	H
VIII-45-5	Ph	H	H	CH ₂ Ph	Bz	H	CH ₃	OH	OH	H	H
VIII-45-6	Ph	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	OH	OH	H	H
VIII-45-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	OH	OH	H	H
VIII-45-8	Ph	*	H	*	Bz	H	CH ₃	OH	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VIII-46

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VIII-46-1	p-Me—Ph	H	H	H	Bz	H	CH ₃	OH	OH	H	H
VIII-46-2	p-Me—Ph	H	H	CH ₃	Bz	H	CH ₃	OH	OH	H	H
VIII-46-3	p-Me—Ph	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	OH	OH	H	H
VIII-46-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	OH	OH	H	H
VIII-46-5	p-Me—Ph	H	H	CH ₂ Ph	Bz	H	CH ₃	OH	OH	H	H
VIII-46-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	OH	OH	H	H
VIII-46-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	OH	OH	H	H
VIII-46-8	p-Me—Ph	*	H	*	Bz	H	CH ₃	OH	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VIII-47

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VIII-47-1	p-F—Ph	H	H	H	Bz	H	CH ₃	OH	OH	H	H
VIII-47-2	p-F—Ph	H	H	CH ₃	Bz	H	CH ₃	OH	OH	H	H
VIII-47-3	p-F—Ph	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	OH	OH	H	H
VIII-47-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	OH	OH	H	H
VIII-47-5	p-F—Ph	H	H	CH ₂ Ph	Bz	H	CH ₃	OH	OH	H	H

TABLE VIII-47-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VIII-47-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	OH	OH	H	H
VIII-47-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	OH	OH	H	H
VIII-47-8	p-F—Ph	*	H	*	Bz	H	CH ₃	OH	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VIII-48

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VIII-48-1	p-Cl—Ph	H	H	H	Bz	H	CH ₃	OH	OH	H	H
VIII-48-2	p-Cl—Ph	H	H	CH ₃	Bz	H	CH ₃	OH	OH	H	H
VIII-48-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	OH	OH	H	H
VIII-48-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	OH	OH	H	H
VIII-48-5	p-Cl—Ph	H	H	CH ₂ Ph	Bz	H	CH ₃	OH	OH	H	H
VIII-48-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	OH	OH	H	H
VIII-48-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	OH	OH	H	H
VIII-48-8	p-Cl—Ph	*	H	*	Bz	H	CH ₃	OH	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VIII-49

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VIII-49-1	p-Br—Ph	H	H	H	Bz	H	CH ₃	OH	OH	H	H
VIII-49-2	p-Br—Ph	H	H	CH ₃	Bz	H	CH ₃	OH	OH	H	H
VIII-49-3	p-Br—Ph	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	OH	OH	H	H
VIII-49-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	OH	OH	H	H
VIII-49-5	p-Br—Ph	H	H	CH ₂ Ph	Bz	H	CH ₃	OH	OH	H	H
VIII-49-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	OH	OH	H	H
VIII-49-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	OH	OH	H	H
VIII-49-8	p-Br—Ph	*	H	*	Bz	H	CH ₃	OH	OH	H	H

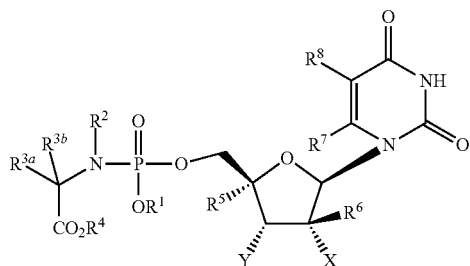
*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE VIII-50

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
VIII-50-1	p-I—Ph	H	H	H	Bz	H	CH ₃	OH	OH	H	H
VIII-50-2	p-I—Ph	H	H	CH ₃	Bz	H	CH ₃	OH	OH	H	H
VIII-50-3	p-I—Ph	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	OH	OH	H	H
VIII-50-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	OH	OH	H	H
VIII-50-5	p-I—Ph	H	H	CH ₂ Ph	Bz	H	CH ₃	OH	OH	H	H
VIII-50-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	OH	OH	H	H
VIII-50-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	OH	OH	H	H
VIII-50-8	p-I—Ph	*	H	*	Bz	H	CH ₃	OH	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

IX 55



60

65

TABLE IX-1

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
IX-1-1	CH ₃	H	H	H	CH ₃	H	CH ₃	F	OH	H	H
IX-1-2	CH ₃	H	H	CH ₃	CH ₃	H	CH ₃	F	OH	H	H
IX-1-3	CH ₃	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH	H	H
IX-1-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH	H	H
IX-1-5	CH ₃	H	H	CH ₂ Ph	CH ₃	H	CH ₃	F	OH	H	H
IX-1-6	CH ₃	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	F	OH	H	H
IX-1-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	F	OH	H	H
IX-1-8	CH ₃	*	H	*	CH ₃	H	CH ₃	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IX-2

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
IX-2-1	Et	H	H	H	CH ₃	H	CH ₃	F	OH	H	H
IX-2-2	Et	H	H	CH ₃	CH ₃	H	CH ₃	F	OH	H	H
IX-2-3	Et	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH	H	H
IX-2-4	Et	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH	H	H
IX-2-5	Et	H	H	CH ₂ Ph	CH ₃	H	CH ₃	F	OH	H	H
IX-2-6	Et	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	F	OH	H	H
IX-2-7	Et	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	F	OH	H	H
IX-2-8	Et	*	H	*	CH ₃	H	CH ₃	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IX-3

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
IX-3-1	ⁱ Pr	H	H	H	CH ₃	H	CH ₃	F	OH	H	H
IX-3-2	ⁱ Pr	H	H	CH ₃	CH ₃	H	CH ₃	F	OH	H	H
IX-3-3	ⁱ Pr	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH	H	H
IX-3-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH	H	H
IX-3-5	ⁱ Pr	H	H	CH ₂ Ph	CH ₃	H	CH ₃	F	OH	H	H
IX-3-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	F	OH	H	H
IX-3-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	F	OH	H	H
IX-3-8	ⁱ Pr	*	H	*	CH ₃	H	CH ₃	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IX-4

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
IX-4-1	^t Bu	H	H	H	CH ₃	H	CH ₃	F	OH	H	H
IX-4-2	^t Bu	H	H	CH ₃	CH ₃	H	CH ₃	F	OH	H	H
IX-4-3	^t Bu	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH	H	H
IX-4-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH	H	H
IX-4-5	^t Bu	H	H	CH ₂ Ph	CH ₃	H	CH ₃	F	OH	H	H
IX-4-6	^t Bu	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	F	OH	H	H
IX-4-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	F	OH	H	H
IX-4-8	^t Bu	*	H	*	CH ₃	H	CH ₃	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IX-5

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
IX-5-1	Ph	H	H	H	CH ₃	H	CH ₃	F	OH	H	H
IX-5-2	Ph	H	H	CH ₃	CH ₃	H	CH ₃	F	OH	H	H
IX-5-3	Ph	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH	H	H
IX-5-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH	H	H
IX-5-5	Ph	H	H	CH ₂ Ph	CH ₃	H	CH ₃	F	OH	H	H

TABLE IX-5-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
IX-5-6	Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	F	OH	H	H
IX-5-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	F	OH	H	H
IX-5-8	Ph	*	H	*	CH ₃	H	CH ₃	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IX-6

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
IX-6-1	p-Me—Ph	H	H	H	CH ₃	H	CH ₃	F	OH	H	H
IX-6-2	p-Me—Ph	H	H	CH ₃	CH ₃	H	CH ₃	F	OH	H	H
IX-6-3	p-Me—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH	H	H
IX-6-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH	H	H
IX-6-5	p-Me—Ph	H	H	CH ₂ Ph	CH ₃	H	CH ₃	F	OH	H	H
IX-6-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	F	OH	H	H
IX-6-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	F	OH	H	H
IX-6-8	p-Me—Ph	*	H	*	CH ₃	H	CH ₃	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IX-7

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
IX-7-1	p-F—Ph	H	H	H	CH ₃	H	CH ₃	F	OH	H	H
IX-7-2	p-F—Ph	H	H	CH ₃	CH ₃	H	CH ₃	F	OH	H	H
IX-7-3	p-F—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH	H	H
IX-7-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH	H	H
IX-7-6	p-F—Ph	H	H	CH ₂ Ph	CH ₃	H	CH ₃	F	OH	H	H
IX-7-7	p-F—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	F	OH	H	H
IX-7-8	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	F	OH	H	H
IX-7-20	p-F—Ph	*	H	*	CH ₃	H	CH ₃	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IX-8

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
IX-8-1	p-Cl—Ph	H	H	H	CH ₃	H	CH ₃	F	OH	H	H
IX-8-2	p-Cl—Ph	H	H	CH ₃	CH ₃	H	CH ₃	F	OH	H	H
IX-8-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH	H	H
IX-8-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH	H	H
IX-8-5	p-Cl—Ph	H	H	CH ₂ Ph	CH ₃	H	CH ₃	F	OH	H	H
IX-8-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	F	OH	H	H
IX-8-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	F	OH	H	H
IX-8-8	p-Cl—Ph	*	H	*	CH ₃	H	CH ₃	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IX-9

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
IX-9-1	p-Br—Ph	H	H	H	CH ₃	H	CH ₃	F	OH	H	H
IX-9-2	p-Br—Ph	H	H	CH ₃	CH ₃	H	CH ₃	F	OH	H	H
IX-9-3	p-Br—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH	H	H
IX-9-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH	H	H
IX-9-6	p-Br—Ph	H	H	CH ₂ Ph	CH ₃	H	CH ₃	F	OH	H	H
IX-9-7	p-Br—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	F	OH	H	H
IX-9-8	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	F	OH	H	H
IX-9-20	p-Br—Ph	*	H	*	CH ₃	H	CH ₃	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IX-10

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
IX-10-1	p-I—Ph	H	H	H	CH ₃	H	CH ₃	F	OH	H	H
IX-10-2	p-I—Ph	H	H	CH ₃	CH ₃	H	CH ₃	F	OH	H	H
IX-10-3	p-I—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH	H	H
IX-10-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH	H	H
IX-10-5	p-I—Ph	H	H	CH ₂ Ph	CH ₃	H	CH ₃	F	OH	H	H
IX-10-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	F	OH	H	H
IX-10-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	F	OH	H	H
IX-10-8	p-I—Ph	*	H	*	CH ₃	H	CH ₃	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IX-11

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
IX-11-1	CH ₃	H	H	H	Et	H	CH ₃	F	OH	H	H
IX-11-2	CH ₃	H	H	CH ₃	Et	H	CH ₃	F	OH	H	H
IX-11-3	CH ₃	H	H	CH(CH ₃) ₂	Et	H	CH ₃	F	OH	H	H
IX-11-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	F	OH	H	H
IX-11-5	CH ₃	H	H	CH ₂ Ph	Et	H	CH ₃	F	OH	H	H
IX-11-6	CH ₃	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	F	OH	H	H
IX-11-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	F	OH	H	H
IX-11-8	CH ₃	*	H	*	Et	H	CH ₃	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IX-12

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
IX-12-1	Et	H	H	H	Et	H	CH ₃	F	OH	H	H
IX-12-2	Et	H	H	CH ₃	Et	H	CH ₃	F	OH	H	H
IX-12-3	Et	H	H	CH(CH ₃) ₂	Et	H	CH ₃	F	OH	H	H
IX-12-4	Et	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	F	OH	H	H
IX-12-5	Et	H	H	CH ₂ Ph	Et	H	CH ₃	F	OH	H	H
IX-12-6	Et	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	F	OH	H	H
IX-12-7	Et	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	F	OH	H	H
IX-12-8	Et	*	H	*	Et	H	CH ₃	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IX-14

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
IX-14-1	'Bu	H	H	H	Et	H	CH ₃	F	OH	H	H
IX-14-2	'Bu	H	H	CH ₃	Et	H	CH ₃	F	OH	H	H
IX-14-3	'Bu	H	H	CH(CH ₃) ₂	Et	H	CH ₃	F	OH	H	H
IX-14-4	'Bu	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	F	OH	H	H
IX-14-5	'Bu	H	H	CH ₂ Ph	Et	H	CH ₃	F	OH	H	H
IX-14-6	'Bu	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	F	OH	H	H
IX-14-7	'Bu	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	F	OH	H	H
IX-14-8	'Bu	*	H	*	Et	H	CH ₃	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IX-13

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
IX-13-1	ⁱ Pr	H	H	H	Et	H	CH ₃	F	OH	H	H
IX-13-2	ⁱ Pr	H	H	CH ₃	Et	H	CH ₃	F	OH	H	H
IX-13-3	ⁱ Pr	H	H	CH(CH ₃) ₂	Et	H	CH ₃	F	OH	H	H
IX-13-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	F	OH	H	H
IX-13-5	ⁱ Pr	H	H	CH ₂ Ph	Et	H	CH ₃	F	OH	H	H
IX-13-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	F	OH	H	H
IX-13-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	F	OH	H	H
IX-13-8	ⁱ Pr	*	H	*	Et	H	CH ₃	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IX-15

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
IX-15-1	Ph	H	H	H	Et	H	CH ₃	F	OH	H	H
IX-15-2	Ph	H	H	CH ₃	Et	H	CH ₃	F	OH	H	H
IX-15-3	Ph	H	H	CH(CH ₃) ₂	Et	H	CH ₃	F	OH	H	H
IX-15-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	F	OH	H	H
IX-15-5	Ph	H	H	CH ₂ Ph	Et	H	CH ₃	F	OH	H	H
IX-15-6	Ph	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	F	OH	H	H
IX-15-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	F	OH	H	H
IX-15-8	Ph	*	H	*	Et	H	CH ₃	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IX-16

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
IX-16-1	p-Me—Ph	H	H	H	Et	H	CH ₃	F	OH	H	H
IX-16-2	p-Me—Ph	H	H	CH ₃	Et	H	CH ₃	F	OH	H	H
IX-16-3	p-Me—Ph	H	H	CH(CH ₃) ₂	Et	H	CH ₃	F	OH	H	H
IX-16-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	F	OH	H	H
IX-16-5	p-Me—Ph	H	H	CH ₂ Ph	Et	H	CH ₃	F	OH	H	H
IX-16-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	F	OH	H	H
IX-16-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	F	OH	H	H
IX-16-8	p-Me—Ph	*	H	*	Et	H	CH ₃	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IX-17

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
IX-17-1	p-F—Ph	H	H	H	Et	H	CH ₃	F	OH	H	H
IX-17-2	p-F—Ph	H	H	CH ₃	Et	H	CH ₃	F	OH	H	H
IX-17-3	p-F—Ph	H	H	CH(CH ₃) ₂	Et	H	CH ₃	F	OH	H	H
IX-17-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	F	OH	H	H
IX-17-5	p-F—Ph	H	H	CH ₂ Ph	Et	H	CH ₃	F	OH	H	H
IX-17-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	F	OH	H	H
IX-17-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	F	OH	H	H
IX-17-8	p-F—Ph	*	H	*	Et	H	CH ₃	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IX-18

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
IX-18-1	p-Cl—Ph	H	H	H	Et	H	CH ₃	F	OH	H	H
IX-18-2	p-Cl—Ph	H	H	CH ₃	Et	H	CH ₃	F	OH	H	H
IX-18-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	Et	H	CH ₃	F	OH	H	H
IX-18-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	F	OH	H	H
IX-18-5	p-Cl—Ph	H	H	CH ₂ Ph	Et	H	CH ₃	F	OH	H	H
IX-18-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	F	OH	H	H
IX-18-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	F	OH	H	H
IX-18-8	p-Cl—Ph	*	H	*	Et	H	CH ₃	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IX-19

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
IX-19-1	p-Br—Ph	H	H	H	Et	H	CH ₃	F	OH	H	H
IX-19-2	p-Br—Ph	H	H	CH ₃	Et	H	CH ₃	F	OH	H	H
IX-19-3	p-Br—Ph	H	H	CH(CH ₃) ₂	Et	H	CH ₃	F	OH	H	H
IX-19-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	F	OH	H	H
IX-19-5	p-Br—Ph	H	H	CH ₂ Ph	Et	H	CH ₃	F	OH	H	H
IX-19-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	F	OH	H	H
IX-19-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	F	OH	H	H
IX-19-8	p-Br—Ph	*	H	*	Et	H	CH ₃	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IX-20

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
IX-20-1	p-I—Ph	H	H	H	Et	H	CH ₃	F	OH	H	H
IX-20-2	p-I—Ph	H	H	CH ₃	Et	H	CH ₃	F	OH	H	H
IX-20-3	p-I—Ph	H	H	CH(CH ₃) ₂	Et	H	CH ₃	F	OH	H	H
IX-20-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	F	OH	H	H
IX-20-5	p-I—Ph	H	H	CH ₂ Ph	Et	H	CH ₃	F	OH	H	H
IX-20-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	F	OH	H	H
IX-20-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	F	OH	H	H
IX-20-8	p-I—Ph	*	H	*	Et	H	CH ₃	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IX-21

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
IX-21-1	CH ₃	H	H	H	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-21-2	CH ₃	H	H	CH ₃	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-21-3	CH ₃	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-21-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-21-5	CH ₃	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	F	OH	H	H

TABLE IX-21-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
IX-21-6	CH ₃	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-21-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-21-8	CH ₃	*	H	*	ⁱ Pr	H	CH ₃	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IX-22

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
IX-22-1	Et	H	H	H	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-22-2	Et	H	H	CH ₃	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-22-3	Et	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-22-4	Et	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-22-5	Et	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-22-6	Et	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-22-7	Et	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-22-8	Et	*	H	*	ⁱ Pr	H	CH ₃	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IX-23

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
IX-23-1	ⁱ Pr	H	H	H	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-23-2	ⁱ Pr	H	H	CH ₃	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-23-3	ⁱ Pr	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-23-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-23-5	ⁱ Pr	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-23-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-23-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-23-8	ⁱ Pr	*	H	*	ⁱ Pr	H	CH ₃	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IX-24

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
IX-24-1	^t Bu	H	H	H	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-24-2	^t Bu	H	H	CH ₃	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-24-3	^t Bu	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-24-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-24-5	^t Bu	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-24-6	^t Bu	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-24-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-24-8	^t Bu	*	H	*	ⁱ Pr	H	CH ₃	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IX-25

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
IX-25-1	Ph	H	H	H	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-25-2	Ph	H	H	CH ₃	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-25-3	Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-25-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-25-5	Ph	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-25-6	Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-25-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-25-8	Ph	*	H	*	ⁱ Pr	H	CH ₃	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IX-26

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
IX-26-1	p-Me—Ph	H	H	H	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-26-2	p-Me—Ph	H	H	CH ₃	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-26-3	p-Me—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-26-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-26-5	p-Me—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-26-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-26-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-26-8	p-Me—Ph	*	H	*	ⁱ Pr	H	CH ₃	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IX-27

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
IX-27-1	p-F—Ph	H	H	H	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-27-2	p-F—Ph	H	H	CH ₃	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-27-3	p-F—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-27-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-27-5	p-F—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-27-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-27-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-27-8	p-F—Ph	*	H	*	ⁱ Pr	H	CH ₃	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IX-28

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
IX-28-1	p-Cl—Ph	H	H	H	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-28-2	p-Cl—Ph	H	H	CH ₃	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-28-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-28-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-28-5	p-Cl—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-28-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-28-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-28-8	p-Cl—Ph	*	H	*	ⁱ Pr	H	CH ₃	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IX-29

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
IX-29-1	p-Br—Ph	H	H	H	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-29-2	p-Br—Ph	H	H	CH ₃	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-29-3	p-Br—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-29-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-29-5	p-Br—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-29-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-29-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-29-8	p-Br—Ph	*	H	*	ⁱ Pr	H	CH ₃	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IX-30

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
IX-30-1	p-I—Ph	H	H	H	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-30-2	p-I—Ph	H	H	CH ₃	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-30-3	p-I—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-30-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-30-5	p-I—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-30-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-30-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	F	OH	H	H
IX-30-8	p-I—Ph	*	H	*	ⁱ Pr	H	CH ₃	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IX-31

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
IX-31-1	CH ₃	H	H	H	ⁿ Bu	H	CH ₃	F	OH	H	H
IX-31-2	CH ₃	H	H	CH ₃	ⁿ Bu	H	CH ₃	F	OH	H	H
IX-31-3	CH ₃	H	H	CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	F	OH	H	H
IX-31-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	F	OH	H	H
IX-31-5	CH ₃	H	H	CH ₂ Ph	ⁿ Bu	H	CH ₃	F	OH	H	H
IX-31-6	CH ₃	H	H	CH ₂ -indol-3-yl	ⁿ Bu	H	CH ₃	F	OH	H	H
IX-31-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	H	CH ₃	F	OH	H	H
IX-31-8	CH ₃	*	H	*	ⁿ Bu	H	CH ₃	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IX-32

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
IX-32-1	Et	H	H	H	ⁿ Bu	H	CH ₃	F	OH	H	H
IX-32-2	Et	H	H	CH ₃	ⁿ Bu	H	CH ₃	F	OH	H	H
IX-32-3	Et	H	H	CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	F	OH	H	H
IX-32-4	Et	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	F	OH	H	H
IX-32-5	Et	H	H	CH ₂ Ph	ⁿ Bu	H	CH ₃	F	OH	H	H

TABLE IX-32-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
IX-32-6	Et	H	H	CH ₂ -indol-3-yl	ⁿ Bu	H	CH ₃	F	OH	H	H
IX-32-7	Et	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	H	CH ₃	F	OH	H	H
IX-32-8	Et	*	H	*	ⁿ Bu	H	CH ₃	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IX-33

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
IX-33-1	ⁱ Pr	H	H	H	ⁿ Bu	H	CH ₃	F	OH	H	H
IX-33-2	ⁱ Pr	H	H	CH ₃	ⁿ Bu	H	CH ₃	F	OH	H	H
IX-33-3	ⁱ Pr	H	H	CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	F	OH	H	H
IX-33-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	F	OH	H	H
IX-33-5	ⁱ Pr	H	H	CH ₂ Ph	ⁿ Bu	H	CH ₃	F	OH	H	H
IX-33-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	ⁿ Bu	H	CH ₃	F	OH	H	H
IX-33-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	H	CH ₃	F	OH	H	H
IX-33-8	ⁱ Pr	*	H	*	ⁿ Bu	H	CH ₃	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IX-34

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
IX-34-1	^t Bu	H	H	H	ⁿ Bu	H	CH ₃	F	OH	H	H
IX-34-2	^t Bu	H	H	CH ₃	ⁿ Bu	H	CH ₃	F	OH	H	H
IX-34-3	^t Bu	H	H	CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	F	OH	H	H
IX-34-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	F	OH	H	H
IX-34-5	^t Bu	H	H	CH ₂ Ph	ⁿ Bu	H	CH ₃	F	OH	H	H
IX-34-6	^t Bu	H	H	CH ₂ -indol-3-yl	ⁿ Bu	H	CH ₃	F	OH	H	H
IX-34-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	H	CH ₃	F	OH	H	H
IX-34-8	^t Bu	*	H	*	ⁿ Bu	H	CH ₃	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IX-35

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
IX-35-1	Ph	H	H	H	ⁿ Bu	H	CH ₃	F	OH	H	H
IX-35-2	Ph	H	H	CH ₃	ⁿ Bu	H	CH ₃	F	OH	H	H
IX-35-3	Ph	H	H	CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	F	OH	H	H
IX-35-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	F	OH	H	H
IX-35-5	Ph	H	H	CH ₂ Ph	ⁿ Bu	H	CH ₃	F	OH	H	H
IX-35-6	Ph	H	H	CH ₂ -indol-3-yl	ⁿ Bu	H	CH ₃	F	OH	H	H
IX-35-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	H	CH ₃	F	OH	H	H
IX-35-8	Ph	*	H	*	ⁿ Bu	H	CH ₃	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IX-36

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
IX-36-1	p-Me—Ph	H	H	H	ⁿ Bu	H	CH ₃	F	OH	H	H
IX-36-2	p-Me—Ph	H	H	CH ₃	ⁿ Bu	H	CH ₃	F	OH	H	H
IX-36-3	p-Me—Ph	H	H	CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	F	OH	H	H
IX-36-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	F	OH	H	H
IX-36-5	p-Me—Ph	H	H	CH ₂ Ph	ⁿ Bu	H	CH ₃	F	OH	H	H
IX-36-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	ⁿ Bu	H	CH ₃	F	OH	H	H
IX-36-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	H	CH ₃	F	OH	H	H
IX-36-8	p-Me—Ph	*	H	*	ⁿ Bu	H	CH ₃	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IX-37

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
IX-37-1	p-F—Ph	H	H	H	"Bu	H	CH ₃	F	OH	H	H
IX-37-2	p-F—Ph	H	H	CH ₃	"Bu	H	CH ₃	F	OH	H	H
IX-37-3	p-F—Ph	H	H	CH(CH ₃) ₂	"Bu	H	CH ₃	F	OH	H	H
IX-37-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	CH ₃	F	OH	H	H
IX-37-5	p-F—Ph	H	H	CH ₂ Ph	"Bu	H	CH ₃	F	OH	H	H
IX-37-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	CH ₃	F	OH	H	H
IX-37-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	CH ₃	F	OH	H	H
IX-37-8	p-F—Ph	*	H	*	"Bu	H	CH ₃	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IX-38

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
IX-38-1	p-Cl—Ph	H	H	H	"Bu	H	CH ₃	F	OH	H	H
IX-38-2	p-Cl—Ph	H	H	CH ₃	"Bu	H	CH ₃	F	OH	H	H
IX-38-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	"Bu	H	CH ₃	F	OH	H	H
IX-38-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	CH ₃	F	OH	H	H
IX-38-5	p-Cl—Ph	H	H	CH ₂ Ph	"Bu	H	CH ₃	F	OH	H	H
IX-38-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	CH ₃	F	OH	H	H
IX-38-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	CH ₃	F	OH	H	H
IX-38-8	p-Cl—Ph	*	H	*	"Bu	H	CH ₃	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IX-39

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
IX-39-1	p-Br—Ph	H	H	H	"Bu	H	CH ₃	F	OH	H	H
IX-39-2	p-Br—Ph	H	H	CH ₃	"Bu	H	CH ₃	F	OH	H	H
IX-39-3	p-Br—Ph	H	H	CH(CH ₃) ₂	"Bu	H	CH ₃	F	OH	H	H
IX-39-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	CH ₃	F	OH	H	H
IX-39-5	p-Br—Ph	H	H	CH ₂ Ph	"Bu	H	CH ₃	F	OH	H	H
IX-39-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	CH ₃	F	OH	H	H
IX-39-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	CH ₃	F	OH	H	H
IX-39-8	p-Br—Ph	*	H	*	"Bu	H	CH ₃	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IX-40

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
IX-40-1	p-I—Ph	H	H	H	"Bu	H	CH ₃	F	OH	H	H
IX-40-2	p-I—Ph	H	H	CH ₃	"Bu	H	CH ₃	F	OH	H	H
IX-40-3	p-I—Ph	H	H	CH(CH ₃) ₂	"Bu	H	CH ₃	F	OH	H	H
IX-40-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	CH ₃	F	OH	H	H
IX-40-5	p-I—Ph	H	H	CH ₂ Ph	"Bu	H	CH ₃	F	OH	H	H
IX-40-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	CH ₃	F	OH	H	H
IX-40-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	CH ₃	F	OH	H	H
IX-40-8	p-I—Ph	*	H	*	"Bu	H	CH ₃	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IX-41

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
IX-41-1	CH ₃	H	H	H	Bz	H	CH ₃	F	OH	H	H
IX-41-2	CH ₃	H	H	CH ₃	Bz	H	CH ₃	F	OH	H	H
IX-41-3	CH ₃	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	F	OH	H	H

TABLE IX-41-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
IX-41-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	F	OH	H	H
IX-41-5	CH ₃	H	H	CH ₂ Ph	Bz	H	CH ₃	F	OH	H	H
IX-41-6	CH ₃	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	F	OH	H	H
IX-41-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	F	OH	H	H
IX-41-8	CH ₃	*	H	*	Bz	H	CH ₃	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IX-42

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
IX-42-1	Et	H	H	H	Bz	H	CH ₃	F	OH	H	H
IX-42-2	Et	H	H	CH ₃	Bz	H	CH ₃	F	OH	H	H
IX-42-3	Et	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	F	OH	H	H
IX-42-4	Et	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	F	OH	H	H
IX-42-5	Et	H	H	CH ₂ Ph	Bz	H	CH ₃	F	OH	H	H
IX-42-6	Et	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	F	OH	H	H
IX-42-7	Et	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	F	OH	H	H
IX-42-8	Et	*	H	*	Bz	H	CH ₃	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IX-43

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
IX-43-1	ⁱ Pr	H	H	H	Bz	H	CH ₃	F	OH	H	H
IX-43-2	ⁱ Pr	H	H	CH ₃	Bz	H	CH ₃	F	OH	H	H
IX-43-3	ⁱ Pr	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	F	OH	H	H
IX-43-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	F	OH	H	H
IX-43-5	ⁱ Pr	H	H	CH ₂ Ph	Bz	H	CH ₃	F	OH	H	H
IX-43-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	F	OH	H	H
IX-43-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	F	OH	H	H
IX-43-8	ⁱ Pr	*	H	*	Bz	H	CH ₃	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IX-44

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
IX-44-1	^t Bu	H	H	H	Bz	H	CH ₃	F	OH	H	H
IX-44-2	^t Bu	H	H	CH ₃	Bz	H	CH ₃	F	OH	H	H
IX-44-3	^t Bu	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	F	OH	H	H
IX-44-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	F	OH	H	H
IX-44-5	^t Bu	H	H	CH ₂ Ph	Bz	H	CH ₃	F	OH	H	H
IX-44-6	^t Bu	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	F	OH	H	H
IX-44-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	F	OH	H	H
IX-44-8	^t Bu	*	H	*	Bz	H	CH ₃	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IX-45

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
IX-45-1	Ph	H	H	H	Bz	H	CH ₃	F	OH	H	H
IX-45-2	Ph	H	H	CH ₃	Bz	H	CH ₃	F	OH	H	H
IX-45-3	Ph	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	F	OH	H	H
IX-45-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	F	OH	H	H
IX-45-5	Ph	H	H	CH ₂ Ph	Bz	H	CH ₃	F	OH	H	H
IX-45-6	Ph	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	F	OH	H	H
IX-45-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	F	OH	H	H
IX-45-8	Ph	*	H	*	Bz	H	CH ₃	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IX-46

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
IX-46-1	p-Me—Ph	H	H	H	Bz	H	CH ₃	F	OH	H	H
IX-46-2	p-Me—Ph	H	H	CH ₃	Bz	H	CH ₃	F	OH	H	H
IX-46-3	p-Me—Ph	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	F	OH	H	H
IX-46-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	F	OH	H	H
IX-46-5	p-Me—Ph	H	H	CH ₂ Ph	Bz	H	CH ₃	F	OH	H	H
IX-46-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	F	OH	H	H
IX-46-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	F	OH	H	H
IX-46-8	p-Me—Ph	*	H	*	Bz	H	CH ₃	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IX-47

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
IX-47-1	p-F—Ph	H	H	H	Bz	H	CH ₃	F	OH	H	H
IX-47-2	p-F—Ph	H	H	CH ₃	Bz	H	CH ₃	F	OH	H	H
IX-47-3	p-F—Ph	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	F	OH	H	H
IX-47-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	F	OH	H	H
IX-47-5	p-F—Ph	H	H	CH ₂ Ph	Bz	H	CH ₃	F	OH	H	H
IX-47-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	F	OH	H	H
IX-47-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	F	OH	H	H
IX-47-8	p-F—Ph	*	H	*	Bz	H	CH ₃	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IX-48

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
IX-48-1	p-Cl—Ph	H	H	H	Bz	H	CH ₃	F	OH	H	H
IX-48-2	p-Cl—Ph	H	H	CH ₃	Bz	H	CH ₃	F	OH	H	H
IX-48-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	F	OH	H	H
IX-48-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	F	OH	H	H
IX-48-5	p-Cl—Ph	H	H	CH ₂ Ph	Bz	H	CH ₃	F	OH	H	H
IX-48-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	F	OH	H	H
IX-48-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	F	OH	H	H
IX-48-8	p-Cl—Ph	*	H	*	Bz	H	CH ₃	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IX-49

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
IX-49-1	p-Br—Ph	H	H	H	Bz	H	CH ₃	F	OH	H	H
IX-49-2	p-Br—Ph	H	H	CH ₃	Bz	H	CH ₃	F	OH	H	H
IX-49-3	p-Br—Ph	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	F	OH	H	H
IX-49-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	F	OH	H	H
IX-49-5	p-Br—Ph	H	H	CH ₂ Ph	Bz	H	CH ₃	F	OH	H	H
IX-49-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	F	OH	H	H
IX-49-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	F	OH	H	H
IX-49-8	p-Br—Ph	*	H	*	Bz	H	CH ₃	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE IX-50

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
IX-50-1	p-I—Ph	H	H	H	Bz	H	CH ₃	F	OH	H	H
IX-50-2	p-I—Ph	H	H	CH ₃	Bz	H	CH ₃	F	OH	H	H
IX-50-3	p-I—Ph	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	F	OH	H	H
IX-50-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	F	OH	H	H
IX-50-5	p-I—Ph	H	H	CH ₂ Ph	Bz	H	CH ₃	F	OH	H	H

TABLE IX-50-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
IX-50-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	F	OH	H	H
IX-50-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	F	OH	H	H
IX-50-8	p-I—Ph	*	H	*	Bz	H	CH ₃	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

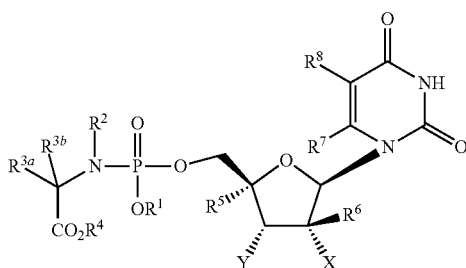


TABLE X-1

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
X-1-1	CH ₃	H	H	H	CH ₃	H	F	F	OH	H	H
X-1-2	CH ₃	H	H	CH ₃	CH ₃	H	F	F	OH	H	H
X-1-3	CH ₃	H	H	CH(CH ₃) ₂	CH ₃	H	F	F	OH	H	H
X-1-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	F	OH	H	H
X-1-5	CH ₃	H	H	CH ₂ Ph	CH ₃	H	F	F	OH	H	H
X-1-6	CH ₃	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	F	OH	H	H
X-1-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	F	OH	H	H
X-1-8	CH ₃	*	H	*	CH ₃	H	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE X-2

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
X-2-1	Et	H	H	H	CH ₃	H	F	F	OH	H	H
X-2-2	Et	H	H	CH ₃	CH ₃	H	F	F	OH	H	H
X-2-3	Et	H	H	CH(CH ₃) ₂	CH ₃	H	F	F	OH	H	H
X-2-4	Et	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	F	OH	H	H
X-2-5	Et	H	H	CH ₂ Ph	CH ₃	H	F	F	OH	H	H
X-2-6	Et	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	F	OH	H	H
X-2-7	Et	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	F	OH	H	H
X-2-8	Et	*	H	*	CH ₃	H	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE X-3

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
X-3-1	^t Pr	H	H	H	CH ₃	H	F	F	OH	H	H
X-3-2	^t Pr	H	H	CH ₃	CH ₃	H	F	F	OH	H	H
X-3-3	^t Pr	H	H	CH(CH ₃) ₂	CH ₃	H	F	F	OH	H	H
X-3-4	^t Pr	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	F	OH	H	H
X-3-5	^t Pr	H	H	CH ₂ Ph	CH ₃	H	F	F	OH	H	H
X-3-6	^t Pr	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	F	OH	H	H
X-3-7	^t Pr	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	F	OH	H	H
X-3-8	^t Pr	*	H	*	CH ₃	H	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE X-4

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
X-4-1	^t Bu	H	H	H	CH ₃	H	F	F	OH	H	H
X-4-2	^t Bu	H	H	CH ₃	CH ₃	H	F	F	OH	H	H
X-4-3	^t Bu	H	H	CH(CH ₃) ₂	CH ₃	H	F	F	OH	H	H
X-4-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	F	OH	H	H
X-4-5	^t Bu	H	H	CH ₂ Ph	CH ₃	H	F	F	OH	H	H
X-4-6	^t Bu	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	F	OH	H	H
X-4-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	F	OH	H	H
X-4-8	^t Bu	*	H	*	CH ₃	H	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE X-5

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
X-5-1	Ph	H	H	H	CH ₃	H	F	F	OH	H	H
X-5-2	Ph	H	H	CH ₃	CH ₃	H	F	F	OH	H	H
X-5-3	Ph	H	H	CH(CH ₃) ₂	CH ₃	H	F	F	OH	H	H
X-5-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	F	OH	H	H
X-5-5	Ph	H	H	CH ₂ Ph	CH ₃	H	F	F	OH	H	H
X-5-6	Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	F	OH	H	H
X-5-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	F	OH	H	H
X-5-8	Ph	*	H	*	CH ₃	H	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE X-6

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
X-6-1	p-Me—Ph	H	H	H	CH ₃	H	F	F	OH	H	H
X-6-2	p-Me—Ph	H	H	CH ₃	CH ₃	H	F	F	OH	H	H
X-6-3	p-Me—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	F	F	OH	H	H
X-6-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	F	OH	H	H
X-6-5	p-Me—Ph	H	H	CH ₂ Ph	CH ₃	H	F	F	OH	H	H
X-6-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	F	OH	H	H
X-6-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	F	OH	H	H
X-6-8	p-Me—Ph	*	H	*	CH ₃	H	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE X-7

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
X-7-1	p-F—Ph	H	H	H	CH ₃	H	F	F	OH	H	H
X-7-2	p-F—Ph	H	H	CH ₃	CH ₃	H	F	F	OH	H	H
X-7-3	p-F—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	F	F	OH	H	H
X-7-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	F	OH	H	H
X-7-6	p-F—Ph	H	H	CH ₂ Ph	CH ₃	H	F	F	OH	H	H
X-7-7	p-F—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	F	OH	H	H
X-7-8	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	F	OH	H	H
X-7-20	p-F—Ph	*	H	*	CH ₃	H	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE X-8

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
X-8-1	p-Cl—Ph	H	H	H	CH ₃	H	F	F	OH	H	H
X-8-2	p-Cl—Ph	H	H	CH ₃	CH ₃	H	F	F	OH	H	H
X-8-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	F	F	OH	H	H
X-8-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	F	OH	H	H
X-8-5	p-Cl—Ph	H	H	CH ₂ Ph	CH ₃	H	F	F	OH	H	H
X-8-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	F	OH	H	H
X-8-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	F	OH	H	H
X-8-8	p-Cl—Ph	*	H	*	CH ₃	H	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE X-9

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
X-9-1	p-Br—Ph	H	H	H	CH ₃	H	F	F	OH	H	H
X-9-2	p-Br—Ph	H	H	CH ₃	CH ₃	H	F	F	OH	H	H
X-9-3	p-Br—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	F	F	OH	H	H
X-9-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	F	OH	H	H
X-9-6	p-Br—Ph	H	H	CH ₂ Ph	CH ₃	H	F	F	OH	H	H
X-9-7	p-Br—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	F	OH	H	H
X-9-8	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	F	OH	H	H
X-9-20	p-Br—Ph	*	H	*	CH ₃	H	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE X-10

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
X-10-1	p-I—Ph	H	H	H	CH ₃	H	F	F	OH	H	H
X-10-2	p-I—Ph	H	H	CH ₃	CH ₃	H	F	F	OH	H	H
X-10-3	p-I—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	F	F	OH	H	H
X-10-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	F	OH	H	H
X-10-5	p-I—Ph	H	H	CH ₂ Ph	CH ₃	H	F	F	OH	H	H
X-10-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	F	OH	H	H
X-10-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	F	OH	H	H
X-10-8	p-I—Ph	*	H	*	CH ₃	H	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE X-11

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
X-11-1	CH ₃	H	H	H	Et	H	F	F	OH	H	H
X-11-2	CH ₃	H	H	CH ₃	Et	H	F	F	OH	H	H
X-11-3	CH ₃	H	H	CH(CH ₃) ₂	Et	H	F	F	OH	H	H
X-11-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	F	OH	H	H
X-11-5	CH ₃	H	H	CH ₂ Ph	Et	H	F	F	OH	H	H
X-11-6	CH ₃	H	H	CH ₂ -indol-3-yl	Et	H	F	F	OH	H	H

TABLE X-11-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
X-11-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	F	OH	H	H
X-11-8	CH ₃	*	H	*	Et	H	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

235

TABLE X-12

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
X-12-1	Et	H	H	H	Et	H	F	F	OH	H	H
X-12-2	Et	H	H	CH ₃	Et	H	F	F	OH	H	H
X-12-3	Et	H	H	CH(CH ₃) ₂	Et	H	F	F	OH	H	H
X-12-4	Et	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	F	OH	H	H
X-12-5	Et	H	H	CH ₂ Ph	Et	H	F	F	OH	H	H
X-12-6	Et	H	H	CH ₂ -indol-3-yl	Et	H	F	F	OH	H	H
X-12-7	Et	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	F	OH	H	H
X-12-8	Et	*	H	*	Et	H	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE X-13

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
X-13-1	ⁱ Pr	H	H	H	Et	H	F	F	OH	H	H
X-13-2	ⁱ Pr	H	H	CH ₃	Et	H	F	F	OH	H	H
X-13-3	ⁱ Pr	H	H	CH(CH ₃) ₂	Et	H	F	F	OH	H	H
X-13-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	F	OH	H	H
X-13-5	ⁱ Pr	H	H	CH ₂ Ph	Et	H	F	F	OH	H	H
X-13-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	Et	H	F	F	OH	H	H
X-13-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	F	OH	H	H
X-13-8	ⁱ Pr	*	H	*	Et	H	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

236

TABLE X-14

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
X-14-1	^t Bu	H	H	H	Et	H	F	F	OH	H	H
X-14-2	^t Bu	H	H	CH ₃	Et	H	F	F	OH	H	H
X-14-3	^t Bu	H	H	CH(CH ₃) ₂	Et	H	F	F	OH	H	H
X-14-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	F	OH	H	H
X-14-5	^t Bu	H	H	CH ₂ Ph	Et	H	F	F	OH	H	H
X-14-6	^t Bu	H	H	CH ₂ -indol-3-yl	Et	H	F	F	OH	H	H
X-14-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	F	OH	H	H
X-14-8	^t Bu	*	H	*	Et	H	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE X-15

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
X-15-1	Ph	H	H	H	Et	H	F	F	OH	H	H
X-15-2	Ph	H	H	CH ₃	Et	H	F	F	OH	H	H
X-15-3	Ph	H	H	CH(CH ₃) ₂	Et	H	F	F	OH	H	H
X-15-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	F	OH	H	H
X-15-5	Ph	H	H	CH ₂ Ph	Et	H	F	F	OH	H	H
X-15-6	Ph	H	H	CH ₂ -indol-3-yl	Et	H	F	F	OH	H	H
X-15-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	F	OH	H	H
X-15-8	Ph	*	H	*	Et	H	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE X-16

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
X-16-1	p-Me—Ph	H	H	H	Et	H	F	F	OH	H	H
X-16-2	p-Me—Ph	H	H	CH ₃	Et	H	F	F	OH	H	H
X-16-3	p-Me—Ph	H	H	CH(CH ₃) ₂	Et	H	F	F	OH	H	H
X-16-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	F	OH	H	H
X-16-5	p-Me—Ph	H	H	CH ₂ Ph	Et	H	F	F	OH	H	H
X-16-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	Et	H	F	F	OH	H	H
X-16-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	F	OH	H	H
X-16-8	p-Me—Ph	*	H	*	Et	H	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE X-17

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
X-17-1	p-F—Ph	H	H	H	Et	H	F	F	OH	H	H
X-17-2	p-F—Ph	H	H	CH ₃	Et	H	F	F	OH	H	H
X-17-3	p-F—Ph	H	H	CH(CH ₃) ₂	Et	H	F	F	OH	H	H
X-17-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	F	OH	H	H
X-17-5	p-F—Ph	H	H	CH ₂ Ph	Et	H	F	F	OH	H	H
X-17-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	Et	H	F	F	OH	H	H
X-17-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	F	OH	H	H
X-17-8	p-F—Ph	*	H	*	Et	H	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE X-18

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
X-18-1	p-Cl—Ph	H	H	H	Et	H	F	F	OH	H	H
X-18-2	p-Cl—Ph	H	H	CH ₃	Et	H	F	F	OH	H	H
X-18-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	Et	H	F	F	OH	H	H
X-18-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	F	OH	H	H
X-18-5	p-Cl—Ph	H	H	CH ₂ Ph	Et	H	F	F	OH	H	H
X-18-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	Et	H	F	F	OH	H	H
X-18-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	F	OH	H	H
X-18-8	p-Cl—Ph	*	H	*	Et	H	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE X-19

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
X-19-1	p-Br—Ph	H	H	H	Et	H	F	F	OH	H	H
X-19-2	p-Br—Ph	H	H	CH ₃	Et	H	F	F	OH	H	H
X-19-3	p-Br—Ph	H	H	CH(CH ₃) ₂	Et	H	F	F	OH	H	H
X-19-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	F	OH	H	H
X-19-5	p-Br—Ph	H	H	CH ₂ Ph	Et	H	F	F	OH	H	H
X-19-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	Et	H	F	F	OH	H	H
X-19-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	F	OH	H	H
X-19-8	p-Br—Ph	*	H	*	Et	H	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE X-20

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
X-20-1	p-I—Ph	H	H	H	Et	H	F	F	OH	H	H
X-20-2	p-I—Ph	H	H	CH ₃	Et	H	F	F	OH	H	H
X-20-3	p-I—Ph	H	H	CH(CH ₃) ₂	Et	H	F	F	OH	H	H
X-20-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	F	OH	H	H
X-20-5	p-I—Ph	H	H	CH ₂ Ph	Et	H	F	F	OH	H	H
X-20-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	Et	H	F	F	OH	H	H
X-20-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	F	OH	H	H
X-20-8	p-I—Ph	*	H	*	Et	H	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE X-21

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
X-21-1	CH ₃	H	H	H	ⁱ Pr	H	F	F	OH	H	H
X-21-2	CH ₃	H	H	CH ₃	ⁱ Pr	H	F	F	OH	H	H
X-21-3	CH ₃	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH	H	H
X-21-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH	H	H
X-21-5	CH ₃	H	H	CH ₂ Ph	ⁱ Pr	H	F	F	OH	H	H
X-21-6	CH ₃	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	F	OH	H	H
X-21-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	F	OH	H	H
X-21-8	CH ₃	*	H	*	ⁱ Pr	H	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE X-22

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
X-22-1	Et	H	H	H	ⁱ Pr	H	F	F	OH	H	H
X-22-2	Et	H	H	CH ₃	ⁱ Pr	H	F	F	OH	H	H
X-22-3	Et	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH	H	H
X-22-4	Et	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH	H	H
X-22-5	Et	H	H	CH ₂ Ph	ⁱ Pr	H	F	F	OH	H	H
X-22-6	Et	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	F	OH	H	H
X-22-7	Et	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	F	OH	H	H
X-22-8	Et	*	H	*	ⁱ Pr	H	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE X-23

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
X-23-1	ⁱ Pr	H	H	H	ⁱ Pr	H	F	F	OH	H	H
X-23-2	ⁱ Pr	H	H	CH ₃	ⁱ Pr	H	F	F	OH	H	H
X-23-3	ⁱ Pr	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH	H	H
X-23-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH	H	H
X-23-5	ⁱ Pr	H	H	CH ₂ Ph	ⁱ Pr	H	F	F	OH	H	H
X-23-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	F	OH	H	H
X-23-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	F	OH	H	H
X-23-8	ⁱ Pr	*	H	*	ⁱ Pr	H	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE X-24

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
X-24-1	^t Bu	H	H	H	ⁱ Pr	H	F	F	OH	H	H
X-24-2	^t Bu	H	H	CH ₃	ⁱ Pr	H	F	F	OH	H	H
X-24-3	^t Bu	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH	H	H
X-24-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH	H	H
X-24-5	^t Bu	H	H	CH ₂ Ph	ⁱ Pr	H	F	F	OH	H	H
X-24-6	^t Bu	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	F	OH	H	H
X-24-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	F	OH	H	H
X-24-8	^t Bu	*	H	*	ⁱ Pr	H	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE X-25

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
X-25-1	Ph	H	H	H	ⁱ Pr	H	F	F	OH	H	H
X-25-2	Ph	H	H	CH ₃	ⁱ Pr	H	F	F	OH	H	H
X-25-3	Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH	H	H
X-25-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH	H	H
X-25-5	Ph	H	H	CH ₂ Ph	ⁱ Pr	H	F	F	OH	H	H
X-25-6	Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	F	OH	H	H
X-25-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	F	OH	H	H
X-25-8	Ph	*	H	*	ⁱ Pr	H	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE X-26

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
X-26-1	p-Me—Ph	H	H	H	ⁱ Pr	H	F	F	OH	H	H
X-26-2	p-Me—Ph	H	H	CH ₃	ⁱ Pr	H	F	F	OH	H	H
X-26-3	p-Me—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH	H	H
X-26-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH	H	H
X-26-5	p-Me—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	F	F	OH	H	H
X-26-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	F	OH	H	H
X-26-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	F	OH	H	H
X-26-8	p-Me—Ph	*	H	*	ⁱ Pr	H	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE X-27

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
X-27-1	p-F—Ph	H	H	H	ⁱ Pr	H	F	F	OH	H	H
X-27-2	p-F—Ph	H	H	CH ₃	ⁱ Pr	H	F	F	OH	H	H
X-27-3	p-F—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH	H	H
X-27-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH	H	H
X-27-5	p-F—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	F	F	OH	H	H
X-27-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	F	OH	H	H
X-27-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	F	OH	H	H
X-27-8	p-F—Ph	*	H	*	ⁱ Pr	H	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE X-28

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
X-28-1	p-Cl—Ph	H	H	H	ⁱ Pr	H	F	F	OH	H	H
X-28-2	p-Cl—Ph	H	H	CH ₃	ⁱ Pr	H	F	F	OH	H	H
X-28-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH	H	H
X-28-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH	H	H
X-28-5	p-Cl—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	F	F	OH	H	H
X-28-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	F	OH	H	H
X-28-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	F	OH	H	H
X-28-8	p-Cl—Ph	*	H	*	ⁱ Pr	H	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE X-29

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
X-29-1	p-Br—Ph	H	H	H	ⁱ Pr	H	F	F	OH	H	H
X-29-2	p-Br—Ph	H	H	CH ₃	ⁱ Pr	H	F	F	OH	H	H
X-29-3	p-Br—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH	H	H
X-29-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH	H	H
X-29-5	p-Br—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	F	F	OH	H	H
X-29-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	F	OH	H	H
X-29-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	F	OH	H	H
X-29-8	p-Br—Ph	*	H	*	ⁱ Pr	H	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE X-30

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
X-30-1	p-I—Ph	H	H	H	ⁱ Pr	H	F	F	OH	H	H
X-30-2	p-I—Ph	H	H	CH ₃	ⁱ Pr	H	F	F	OH	H	H
X-30-3	p-I—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH	H	H
X-30-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH	H	H
X-30-5	p-I—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	F	F	OH	H	H
X-30-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	F	OH	H	H
X-30-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	F	OH	H	H
X-30-8	p-I—Ph	*	H	*	ⁱ Pr	H	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE X-31

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
X-31-1	CH ₃	H	H	H	ⁿ Bu	H	F	F	OH	H	H
X-31-2	CH ₃	H	H	CH ₃	ⁿ Bu	H	F	F	OH	H	H
X-31-3	CH ₃	H	H	CH(CH ₃) ₂	ⁿ Bu	H	F	F	OH	H	H
X-31-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	F	F	OH	H	H
X-31-5	CH ₃	H	H	CH ₂ Ph	ⁿ Bu	H	F	F	OH	H	H
X-31-6	CH ₃	H	H	CH ₂ -indol-3-yl	ⁿ Bu	H	F	F	OH	H	H

TABLE X-31-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
X-31-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	H	F	F	OH	H	H
X-31-8	CH ₃	*	H	*	ⁿ Bu	H	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

241

TABLE X-32

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
X-32-1	Et	H	H	H	"Bu	H	F	F	OH	H	H
X-32-2	Et	H	H	CH ₃	"Bu	H	F	F	OH	H	H
X-32-3	Et	H	H	CH(CH ₃) ₂	"Bu	H	F	F	OH	H	H
X-32-4	Et	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	F	OH	H	H
X-32-5	Et	H	H	CH ₂ Ph	"Bu	H	F	F	OH	H	H
X-32-6	Et	H	H	CH ₂ -indol-3-yl	"Bu	H	F	F	OH	H	H
X-32-7	Et	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	F	OH	H	H
X-32-8	Et	*	H	*	"Bu	H	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE X-33

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
X-33-1	ⁱ Pr	H	H	H	"Bu	H	F	F	OH	H	H
X-33-2	ⁱ Pr	H	H	CH ₃	"Bu	H	F	F	OH	H	H
X-33-3	ⁱ Pr	H	H	CH(CH ₃) ₂	"Bu	H	F	F	OH	H	H
X-33-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	F	OH	H	H
X-33-5	ⁱ Pr	H	H	CH ₂ Ph	"Bu	H	F	F	OH	H	H
X-33-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	"Bu	H	F	F	OH	H	H
X-33-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	F	OH	H	H
X-33-8	ⁱ Pr	*	H	*	"Bu	H	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

242

TABLE X-34

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
X-34-1	'Bu	H	H	H	"Bu	H	F	F	OH	H	H
X-34-2	'Bu	H	H	CH ₃	"Bu	H	F	F	OH	H	H
X-34-3	'Bu	H	H	CH(CH ₃) ₂	"Bu	H	F	F	OH	H	H
X-34-4	'Bu	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	F	OH	H	H
X-34-5	'Bu	H	H	CH ₂ Ph	"Bu	H	F	F	OH	H	H
X-34-6	'Bu	H	H	CH ₂ -indol-3-yl	"Bu	H	F	F	OH	H	H
X-34-7	'Bu	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	F	OH	H	H
X-34-8	'Bu	*	H	*	"Bu	H	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE X-35

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
X-35-1	Ph	H	H	H	"Bu	H	F	F	OH	H	H
X-35-2	Ph	H	H	CH ₃	"Bu	H	F	F	OH	H	H
X-35-3	Ph	H	H	CH(CH ₃) ₂	"Bu	H	F	F	OH	H	H
X-35-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	F	OH	H	H
X-35-5	Ph	H	H	CH ₂ Ph	"Bu	H	F	F	OH	H	H
X-35-6	Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	F	F	OH	H	H
X-35-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	F	OH	H	H
X-35-8	Ph	*	H	*	"Bu	H	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE X-36

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
X-36-1	p-Me—Ph	H	H	H	"Bu	H	F	F	OH	H	H
X-36-2	p-Me—Ph	H	H	CH ₃	"Bu	H	F	F	OH	H	H
X-36-3	p-Me—Ph	H	H	CH(CH ₃) ₂	"Bu	H	F	F	OH	H	H
X-36-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	F	OH	H	H
X-36-5	p-Me—Ph	H	H	CH ₂ Ph	"Bu	H	F	F	OH	H	H
X-36-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	F	F	OH	H	H
X-36-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	F	OH	H	H
X-36-8	p-Me—Ph	*	H	*	"Bu	H	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE X-37

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
X-37-1	p-F—Ph	H	H	H	"Bu	H	F	F	OH	H	H
X-37-2	p-F—Ph	H	H	CH ₃	"Bu	H	F	F	OH	H	H
X-37-3	p-F—Ph	H	H	CH(CH ₃) ₂	"Bu	H	F	F	OH	H	H
X-37-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	F	OH	H	H
X-37-5	p-F—Ph	H	H	CH ₂ Ph	"Bu	H	F	F	OH	H	H
X-37-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	F	F	OH	H	H
X-37-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	F	OH	H	H
X-37-8	p-F—Ph	*	H	*	"Bu	H	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE X-38

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
X-38-1	p-Cl—Ph	H	H	H	"Bu	H	F	F	OH	H	H
X-38-2	p-Cl—Ph	H	H	CH ₃	"Bu	H	F	F	OH	H	H
X-38-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	"Bu	H	F	F	OH	H	H
X-38-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	F	OH	H	H
X-38-5	p-Cl—Ph	H	H	CH ₂ Ph	"Bu	H	F	F	OH	H	H
X-38-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	F	F	OH	H	H
X-38-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	F	OH	H	H
X-38-8	p-Cl—Ph	*	H	*	"Bu	H	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE X-39

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
X-39-1	p-Br-Ph	H	H	H	"Bu	H	F	F	OH	H	H
X-39-2	p-Br-Ph	H	H	CH ₃	"Bu	H	F	F	OH	H	H
X-39-3	p-Br-Ph	H	H	CH(CH ₃) ₂	"Bu	H	F	F	OH	H	H
X-39-4	p-Br-Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	F	OH	H	H
X-39-5	p-Br-Ph	H	H	CH ₂ Ph	"Bu	H	F	F	OH	H	H
X-39-6	p-Br-Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	F	F	OH	H	H
X-39-7	p-Br-Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	F	OH	H	H
X-39-8	p-Br-Ph	*	H	*	"Bu	H	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE X-40

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
X-40-1	p-I-Ph	H	H	H	"Bu	H	F	F	OH	H	H
X-40-2	p-I-Ph	H	H	CH ₃	"Bu	H	F	F	OH	H	H
X-40-3	p-I-Ph	H	H	CH(CH ₃) ₂	"Bu	H	F	F	OH	H	H
X-40-4	p-I-Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	F	OH	H	H
X-40-5	p-I-Ph	H	H	CH ₂ Ph	"Bu	H	F	F	OH	H	H
X-40-6	p-I-Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	F	F	OH	H	H
X-40-7	p-I-Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	F	OH	H	H
X-40-8	p-I-Ph	*	H	*	"Bu	H	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE X-41

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
X-41-1	CH ₃	H	H	H	Bz	H	F	F	OH	H	H
X-41-2	CH ₃	H	H	CH ₃	Bz	H	F	F	OH	H	H
X-41-3	CH ₃	H	H	CH(CH ₃) ₂	Bz	H	F	F	OH	H	H
X-41-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	F	OH	H	H
X-41-5	CH ₃	H	H	CH ₂ Ph	Bz	H	F	F	OH	H	H
X-41-6	CH ₃	H	H	CH ₂ -indol-3-yl	Bz	H	F	F	OH	H	H
X-41-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	F	OH	H	H
X-41-8	CH ₃	*	H	*	Bz	H	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE X-42

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
X-42-1	Et	H	H	H	Bz	H	F	F	OH	H	H
X-42-2	Et	H	H	CH ₃	Bz	H	F	F	OH	H	H
X-42-3	Et	H	H	CH(CH ₃) ₂	Bz	H	F	F	OH	H	H
X-42-4	Et	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	F	OH	H	H
X-42-5	Et	H	H	CH ₂ Ph	Bz	H	F	F	OH	H	H
X-42-6	Et	H	H	CH ₂ -indol-3-yl	Bz	H	F	F	OH	H	H
X-42-7	Et	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	F	OH	H	H
X-42-8	Et	*	H	*	Bz	H	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE X-43

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
X-43-1	ⁱ Pr	H	H	H	Bz	H	F	F	OH	H	H
X-43-2	ⁱ Pr	H	H	CH ₃	Bz	H	F	F	OH	H	H
X-43-3	ⁱ Pr	H	H	CH(CH ₃) ₂	Bz	H	F	F	OH	H	H
X-43-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	F	OH	H	H
X-43-5	ⁱ Pr	H	H	CH ₂ Ph	Bz	H	F	F	OH	H	H
X-43-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	Bz	H	F	F	OH	H	H

TABLE X-43-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
X-43-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	F	OH	H	H
X-43-8	ⁱ Pr	*	H	*	Bz	H	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE X-44

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
X-44-1	"Bu	H	H	H	Bz	H	F	F	OH	H	H
X-44-2	"Bu	H	H	CH ₃	Bz	H	F	F	OH	H	H
X-44-3	"Bu	H	H	CH(CH ₃) ₂	Bz	H	F	F	OH	H	H
X-44-4	"Bu	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	F	OH	H	H
X-44-5	"Bu	H	H	CH ₂ Ph	Bz	H	F	F	OH	H	H
X-44-6	"Bu	H	H	CH ₂ -indol-3-yl	Bz	H	F	F	OH	H	H
X-44-7	"Bu	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	F	OH	H	H
X-44-8	"Bu	*	H	*	Bz	H	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE X-45

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
X-45-1	Ph	H	H	H	Bz	H	F	F	OH	H	H
X-45-2	Ph	H	H	CH ₃	Bz	H	F	F	OH	H	H
X-45-3	Ph	H	H	CH(CH ₃) ₂	Bz	H	F	F	OH	H	H
X-45-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	F	OH	H	H
X-45-5	Ph	H	H	CH ₂ Ph	Bz	H	F	F	OH	H	H
X-45-6	Ph	H	H	CH ₂ -indol-3-yl	Bz	H	F	F	OH	H	H
X-45-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	F	OH	H	H
X-45-8	Ph	*	H	*	Bz	H	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE X-46

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
X-46-1	p-Me—Ph	H	H	H	Bz	H	F	F	OH	H	H
X-46-2	p-Me—Ph	H	H	CH ₃	Bz	H	F	F	OH	H	H
X-46-3	p-Me—Ph	H	H	CH(CH ₃) ₂	Bz	H	F	F	OH	H	H
X-46-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	F	OH	H	H
X-46-5	p-Me—Ph	H	H	CH ₂ Ph	Bz	H	F	F	OH	H	H
X-46-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	F	F	OH	H	H
X-46-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	F	OH	H	H
X-46-8	p-Me—Ph	*	H	*	Bz	H	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE X-47

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
X-47-1	p-F—Ph	H	H	H	Bz	H	F	F	OH	H	H
X-47-2	p-F—Ph	H	H	CH ₃	Bz	H	F	F	OH	H	H
X-47-3	p-F—Ph	H	H	CH(CH ₃) ₂	Bz	H	F	F	OH	H	H
X-47-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	F	OH	H	H
X-47-5	p-F—Ph	H	H	CH ₂ Ph	Bz	H	F	F	OH	H	H
X-47-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	F	F	OH	H	H
X-47-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	F	OH	H	H
X-47-8	p-F—Ph	*	H	*	Bz	H	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE X-48

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
X-48-1	p-Cl—Ph	H	H	H	Bz	H	F	F	OH	H	H
X-48-2	p-Cl—Ph	H	H	CH ₃	Bz	H	F	F	OH	H	H
X-48-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	Bz	H	F	F	OH	H	H
X-48-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	F	OH	H	H
X-48-5	p-Cl—Ph	H	H	CH ₂ Ph	Bz	H	F	F	OH	H	H
X-48-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	F	F	OH	H	H
X-48-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	F	OH	H	H
X-48-8	p-Cl—Ph	*	H	*	Bz	H	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE X-49

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
X-49-1	p-Br—Ph	H	H	H	Bz	H	F	F	OH	H	H
X-49-2	p-Br—Ph	H	H	CH ₃	Bz	H	F	F	OH	H	H
X-49-3	p-Br—Ph	H	H	CH(CH ₃) ₂	Bz	H	F	F	OH	H	H
X-49-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	F	OH	H	H
X-49-5	p-Br—Ph	H	H	CH ₂ Ph	Bz	H	F	F	OH	H	H
X-49-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	F	F	OH	H	H
X-49-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	F	OH	H	H
X-49-8	p-Br—Ph	*	H	*	Bz	H	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE X-50

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
X-50-1	p-I—Ph	H	H	H	Bz	H	F	F	OH	H	H
X-50-2	p-I—Ph	H	H	CH ₃	Bz	H	F	F	OH	H	H
X-50-3	p-I—Ph	H	H	CH(CH ₃) ₂	Bz	H	F	F	OH	H	H
X-50-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	F	OH	H	H
X-50-5	p-I—Ph	H	H	CH ₂ Ph	Bz	H	F	F	OH	H	H

TABLE X-50-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
X-50-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	F	F	OH	H	H
X-50-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	F	OH	H	H
X-50-8	p-I—Ph	*	H	*	Bz	H	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

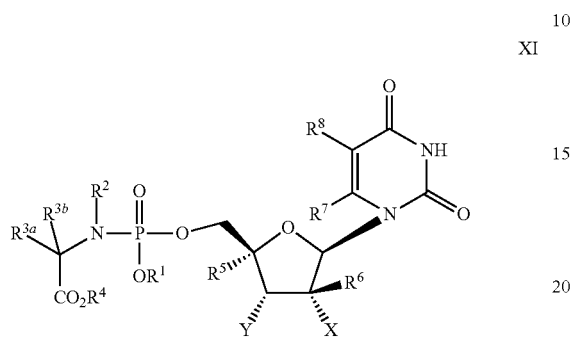


TABLE XI-1

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XI-1-1	CH ₃	H	H	H	CH ₃	H	H	F	OH	H	H
XI-1-2	CH ₃	H	H	CH ₃	CH ₃	H	H	F	OH	H	H
XI-1-3	CH ₃	H	H	CH(CH ₃) ₂	CH ₃	H	H	F	OH	H	H
XI-1-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	H	F	OH	H	H
XI-1-5	CH ₃	H	H	CH ₂ Ph	CH ₃	H	H	F	OH	H	H
XI-1-6	CH ₃	H	H	CH ₂ -indol-3-yl	CH ₃	H	H	F	OH	H	H
XI-1-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	H	F	OH	H	H
XI-1-8	CH ₃	*	H	*	CH ₃	H	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XI-2

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XI-2-1	Et	H	H	H	CH ₃	H	H	F	OH	H	H
XI-2-2	Et	H	H	CH ₃	CH ₃	H	H	F	OH	H	H
XI-2-3	Et	H	H	CH(CH ₃) ₂	CH ₃	H	H	F	OH	H	H
XI-2-4	Et	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	H	F	OH	H	H
XI-2-5	Et	H	H	CH ₂ Ph	CH ₃	H	H	F	OH	H	H
XI-2-6	Et	H	H	CH ₂ -indol-3-yl	CH ₃	H	H	F	OH	H	H
XI-2-7	Et	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	H	F	OH	H	H
XI-2-8	Et	*	H	*	CH ₃	H	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XI-4

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XI-4-1	^t Bu	H	H	H	CH ₃	H	H	F	OH	H	H
XI-4-2	^t Bu	H	H	CH ₃	CH ₃	H	H	F	OH	H	H
XI-4-3	^t Bu	H	H	CH(CH ₃) ₂	CH ₃	H	H	F	OH	H	H
XI-4-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	H	F	OH	H	H
XI-4-5	^t Bu	H	H	CH ₂ Ph	CH ₃	H	H	F	OH	H	H
XI-4-6	^t Bu	H	H	CH ₂ -indol-3-yl	CH ₃	H	H	F	OH	H	H
XI-4-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	H	F	OH	H	H
XI-4-8	^t Bu	*	H	*	CH ₃	H	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XI-3

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XI-3-1	ⁱ Pr	H	H	H	CH ₃	H	H	F	OH	H	H
XI-3-2	ⁱ Pr	H	H	CH ₃	CH ₃	H	H	F	OH	H	H
XI-3-3	ⁱ Pr	H	H	CH(CH ₃) ₂	CH ₃	H	H	F	OH	H	H
XI-3-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	H	F	OH	H	H
XI-3-5	ⁱ Pr	H	H	CH ₂ Ph	CH ₃	H	H	F	OH	H	H
XI-3-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	CH ₃	H	H	F	OH	H	H
XI-3-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	H	F	OH	H	H
XI-3-8	ⁱ Pr	*	H	*	CH ₃	H	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XI-5

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XI-5-1	Ph	H	H	H	CH ₃	H	H	F	OH	H	H
XI-5-2	Ph	H	H	CH ₃	CH ₃	H	H	F	OH	H	H
XI-5-3	Ph	H	H	CH(CH ₃) ₂	CH ₃	H	H	F	OH	H	H
XI-5-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	H	F	OH	H	H
XI-5-5	Ph	H	H	CH ₂ Ph	CH ₃	H	H	F	OH	H	H
XI-5-6	Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	H	F	OH	H	H
XI-5-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	H	F	OH	H	H
XI-5-8	Ph	*	H	*	CH ₃	H	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XI-6

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XI-6-1	p-Me—Ph	H	H	H	CH ₃	H	H	F	OH	H	H
XI-6-2	p-Me—Ph	H	H	CH ₃	CH ₃	H	H	F	OH	H	H
XI-6-3	p-Me—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	H	F	OH	H	H
XI-6-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	H	F	OH	H	H
XI-6-5	p-Me—Ph	H	H	CH ₂ Ph	CH ₃	H	H	F	OH	H	H
XI-6-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	H	F	OH	H	H
XI-6-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	H	F	OH	H	H
XI-6-8	p-Me—Ph	*	H	*	CH ₃	H	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XI-7

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XI-7-1	p-F—Ph	H	H	H	CH ₃	H	H	F	OH	H	H
XI-7-2	p-F—Ph	H	H	CH ₃	CH ₃	H	H	F	OH	H	H
XI-7-3	p-F—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	H	F	OH	H	H
XI-7-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	H	F	OH	H	H
XI-7-6	p-F—Ph	H	H	CH ₂ Ph	CH ₃	H	H	F	OH	H	H
XI-7-7	p-F—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	H	F	OH	H	H
XI-7-8	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	H	F	OH	H	H
XI-7-20	p-F—Ph	*	H	*	CH ₃	H	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XI-8

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XI-8-1	p-Cl—Ph	H	H	H	CH ₃	H	H	F	OH	H	H
XI-8-2	p-Cl—Ph	H	H	CH ₃	CH ₃	H	H	F	OH	H	H
XI-8-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	H	F	OH	H	H
XI-8-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	H	F	OH	H	H
XI-8-5	p-Cl—Ph	H	H	CH ₂ Ph	CH ₃	H	H	F	OH	H	H
XI-8-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	H	F	OH	H	H
XI-8-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	H	F	OH	H	H
XI-8-8	p-Cl—Ph	*	H	*	CH ₃	H	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XI-9

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XI-9-1	p-Br—Ph	H	H	H	CH ₃	H	H	F	OH	H	H
XI-9-2	p-Br—Ph	H	H	CH ₃	CH ₃	H	H	F	OH	H	H
XI-9-3	p-Br—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	H	F	OH	H	H
XI-9-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	H	F	OH	H	H
XI-9-6	p-Br—Ph	H	H	CH ₂ Ph	CH ₃	H	H	F	OH	H	H
XI-9-7	p-Br—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	H	F	OH	H	H
XI-9-8	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	H	F	OH	H	H
XI-9-20	p-Br—Ph	*	H	*	CH ₃	H	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XI-10

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XI-10-1	p-I—Ph	H	H	H	CH ₃	H	H	F	OH	H	H
XI-10-2	p-I—Ph	H	H	CH ₃	CH ₃	H	H	F	OH	H	H
XI-10-3	p-I—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	H	F	OH	H	H
XI-10-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	H	F	OH	H	H
XI-10-5	p-I—Ph	H	H	CH ₂ Ph	CH ₃	H	H	F	OH	H	H

TABLE XI-10-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XI-10-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	H	F	OH	H	H
XI-10-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	H	F	OH	H	H
XI-10-8	p-I—Ph	*	H	*	CH ₃	H	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XI-11

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XI-11-1	CH ₃	H	H	H	Et	H	H	F	OH	H	H
XI-11-2	CH ₃	H	H	CH ₃	Et	H	H	F	OH	H	H
XI-11-3	CH ₃	H	H	CH(CH ₃) ₂	Et	H	H	F	OH	H	H
XI-11-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	Et	H	H	F	OH	H	H
XI-11-5	CH ₃	H	H	CH ₂ Ph	Et	H	H	F	OH	H	H
XI-11-6	CH ₃	H	H	CH ₂ -indol-3-yl	Et	H	H	F	OH	H	H
XI-11-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	Et	H	H	F	OH	H	H
XI-11-8	CH ₃	*	H	*	Et	H	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XI-12

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XI-12-1	Et	H	H	H	Et	H	H	F	OH	H	H
XI-12-2	Et	H	H	CH ₃	Et	H	H	F	OH	H	H
XI-12-3	Et	H	H	CH(CH ₃) ₂	Et	H	H	F	OH	H	H
XI-12-4	Et	H	H	CH ₂ CH(CH ₃) ₂	Et	H	H	F	OH	H	H
XI-12-5	Et	H	H	CH ₂ Ph	Et	H	H	F	OH	H	H
XI-12-6	Et	H	H	CH ₂ -indol-3-yl	Et	H	H	F	OH	H	H
XI-12-7	Et	H	H	CH ₂ CH ₂ SCH ₃	Et	H	H	F	OH	H	H
XI-12-8	Et	*	H	*	Et	H	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XI-13

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XI-13-1	ⁱ Pr	H	H	H	Et	H	H	F	OH	H	H
XI-13-2	ⁱ Pr	H	H	CH ₃	Et	H	H	F	OH	H	H
XI-13-3	ⁱ Pr	H	H	CH(CH ₃) ₂	Et	H	H	F	OH	H	H
XI-13-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	Et	H	H	F	OH	H	H
XI-13-5	ⁱ Pr	H	H	CH ₂ Ph	Et	H	H	F	OH	H	H
XI-13-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	Et	H	H	F	OH	H	H
XI-13-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	Et	H	H	F	OH	H	H
XI-13-8	ⁱ Pr	*	H	*	Et	H	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XI-14

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XI-14-1	^t Bu	H	H	H	Et	H	H	F	OH	H	H
XI-14-2	^t Bu	H	H	CH ₃	Et	H	H	F	OH	H	H
XI-14-3	^t Bu	H	H	CH(CH ₃) ₂	Et	H	H	F	OH	H	H
XI-14-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	Et	H	H	F	OH	H	H
XI-14-5	^t Bu	H	H	CH ₂ Ph	Et	H	H	F	OH	H	H
XI-14-6	^t Bu	H	H	CH ₂ -indol-3-yl	Et	H	H	F	OH	H	H
XI-14-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	Et	H	H	F	OH	H	H
XI-14-8	^t Bu	*	H	*	Et	H	H	F	OH	H	H

35 *R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XI-15

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XI-15-1	Ph	H	H	H	Et	H	H	F	OH	H	H
XI-15-2	Ph	H	H	CH ₃	Et	H	H	F	OH	H	H
XI-15-3	Ph	H	H	CH(CH ₃) ₂	Et	H	H	F	OH	H	H
XI-15-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	H	F	OH	H	H
XI-15-5	Ph	H	H	CH ₂ Ph	Et	H	H	F	OH	H	H
XI-15-6	Ph	H	H	CH ₂ -indol-3-yl	Et	H	H	F	OH	H	H
XI-15-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	H	F	OH	H	H
XI-15-8	Ph	*	H	*	Et	H	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XI-16

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XI-16-1	p-Me—Ph	H	H	H	Et	H	H	F	OH	H	H
XI-16-2	p-Me—Ph	H	H	CH ₃	Et	H	H	F	OH	H	H
XI-16-3	p-Me—Ph	H	H	CH(CH ₃) ₂	Et	H	H	F	OH	H	H
XI-16-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	H	F	OH	H	H
XI-16-5	p-Me—Ph	H	H	CH ₂ Ph	Et	H	H	F	OH	H	H
XI-16-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	Et	H	H	F	OH	H	H
XI-16-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	H	F	OH	H	H
XI-16-8	p-Me—Ph	*	H	*	Et	H	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XI-17

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XI-17-1	p-F—Ph	H	H	H	Et	H	H	F	OH	H	H
XI-17-2	p-F—Ph	H	H	CH ₃	Et	H	H	F	OH	H	H
XI-17-3	p-F—Ph	H	H	CH(CH ₃) ₂	Et	H	H	F	OH	H	H
XI-17-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	H	F	OH	H	H
XI-17-5	p-F—Ph	H	H	CH ₂ Ph	Et	H	H	F	OH	H	H
XI-17-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	Et	H	H	F	OH	H	H
XI-17-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	H	F	OH	H	H
XI-17-8	p-F—Ph	*	H	*	Et	H	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XI-18

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XI-18-1	p-Cl—Ph	H	H	H	Et	H	H	F	OH	H	H
XI-18-2	p-Cl—Ph	H	H	CH ₃	Et	H	H	F	OH	H	H
XI-18-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	Et	H	H	F	OH	H	H
XI-18-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	H	F	OH	H	H
XI-18-5	p-Cl—Ph	H	H	CH ₂ Ph	Et	H	H	F	OH	H	H
XI-18-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	Et	H	H	F	OH	H	H
XI-18-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	H	F	OH	H	H
XI-18-8	p-Cl—Ph	*	H	*	Et	H	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XI-19

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XI-19-1	p-Br—Ph	H	H	H	Et	H	H	F	OH	H	H
XI-19-2	p-Br—Ph	H	H	CH ₃	Et	H	H	F	OH	H	H
XI-19-3	p-Br—Ph	H	H	CH(CH ₃) ₂	Et	H	H	F	OH	H	H
XI-19-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	H	F	OH	H	H
XI-19-5	p-Br—Ph	H	H	CH ₂ Ph	Et	H	H	F	OH	H	H
XI-19-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	Et	H	H	F	OH	H	H
XI-19-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	H	F	OH	H	H
XI-19-8	p-Br—Ph	*	H	*	Et	H	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XI-20

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XI-20-1	p-I—Ph	H	H	H	Et	H	H	F	OH	H	H
XI-20-2	p-I—Ph	H	H	CH ₃	Et	H	H	F	OH	H	H
XI-20-3	p-I—Ph	H	H	CH(CH ₃) ₂	Et	H	H	F	OH	H	H
XI-20-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	H	F	OH	H	H
XI-20-5	p-I—Ph	H	H	CH ₂ Ph	Et	H	H	F	OH	H	H
XI-20-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	Et	H	H	F	OH	H	H
XI-20-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	H	F	OH	H	H
XI-20-8	p-I—Ph	*	H	*	Et	H	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XI-21

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XI-21-1	CH ₃	H	H	H	ⁱ Pr	H	H	F	OH	H	H
XI-21-2	CH ₃	H	H	CH ₃	ⁱ Pr	H	H	F	OH	H	H
XI-21-3	CH ₃	H	H	CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH	H	H
XI-21-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH	H	H
XI-21-5	CH ₃	H	H	CH ₂ Ph	ⁱ Pr	H	H	F	OH	H	H

TABLE XI-21-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XI-21-6	CH ₃	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	H	F	OH	H	H
XI-21-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	H	F	OH	H	H
XI-21-8	CH ₃	*	H	*	ⁱ Pr	H	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XI-22

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XI-22-1	Et	H	H	H	ⁱ Pr	H	H	F	OH	H	H
XI-22-2	Et	H	H	CH ₃	ⁱ Pr	H	H	F	OH	H	H
XI-22-3	Et	H	H	CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH	H	H
XI-22-4	Et	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH	H	H
XI-22-5	Et	H	H	CH ₂ Ph	ⁱ Pr	H	H	F	OH	H	H
XI-22-6	Et	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	H	F	OH	H	H
XI-22-7	Et	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	H	F	OH	H	H
XI-22-8	Et	*	H	*	ⁱ Pr	H	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XI-23

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XI-23-1	ⁱ Pr	H	H	H	ⁱ Pr	H	H	F	OH	H	H
XI-23-2	ⁱ Pr	H	H	CH ₃	ⁱ Pr	H	H	F	OH	H	H
XI-23-3	ⁱ Pr	H	H	CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH	H	H
XI-23-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH	H	H
XI-23-5	ⁱ Pr	H	H	CH ₂ Ph	ⁱ Pr	H	H	F	OH	H	H
XI-23-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	H	F	OH	H	H
XI-23-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	H	F	OH	H	H
XI-23-8	ⁱ Pr	*	H	*	ⁱ Pr	H	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XI-24

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XI-24-1	^t Bu	H	H	H	ⁱ Pr	H	H	F	OH	H	H
XI-24-2	^t Bu	H	H	CH ₃	ⁱ Pr	H	H	F	OH	H	H
XI-24-3	^t Bu	H	H	CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH	H	H
XI-24-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH	H	H
XI-24-5	^t Bu	H	H	CH ₂ Ph	ⁱ Pr	H	H	F	OH	H	H
XI-24-6	^t Bu	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	H	F	OH	H	H
XI-24-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	H	F	OH	H	H
XI-24-8	^t Bu	*	H	*	ⁱ Pr	H	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XI-25

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XI-25-1	Ph	H	H	H	ⁱ Pr	H	H	F	OH	H	H
XI-25-2	Ph	H	H	CH ₃	ⁱ Pr	H	H	F	OH	H	H
XI-25-3	Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH	H	H
XI-25-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH	H	H
XI-25-5	Ph	H	H	CH ₂ Ph	ⁱ Pr	H	H	F	OH	H	H
XI-25-6	Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	H	F	OH	H	H
XI-25-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	H	F	OH	H	H
XI-25-8	Ph	*	H	*	ⁱ Pr	H	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XI-26

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XI-26-1	p-Me—Ph	H	H	H	^t Pr	H	H	F	OH	H	H
XI-26-2	p-Me—Ph	H	H	CH ₃	^t Pr	H	H	F	OH	H	H
XI-26-3	p-Me—Ph	H	H	CH(CH ₃) ₂	^t Pr	H	H	F	OH	H	H
XI-26-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	^t Pr	H	H	F	OH	H	H
XI-26-5	p-Me—Ph	H	H	CH ₂ Ph	^t Pr	H	H	F	OH	H	H
XI-26-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	^t Pr	H	H	F	OH	H	H
XI-26-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	^t Pr	H	H	F	OH	H	H
XI-26-8	p-Me—Ph	*	H	*	^t Pr	H	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XI-27

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XI-27-1	p-F—Ph	H	H	H	^t Pr	H	H	F	OH	H	H
XI-27-2	p-F—Ph	H	H	CH ₃	^t Pr	H	H	F	OH	H	H
XI-27-3	p-F—Ph	H	H	CH(CH ₃) ₂	^t Pr	H	H	F	OH	H	H
XI-27-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	^t Pr	H	H	F	OH	H	H
XI-27-5	p-F—Ph	H	H	CH ₂ Ph	^t Pr	H	H	F	OH	H	H
XI-27-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	^t Pr	H	H	F	OH	H	H
XI-27-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	^t Pr	H	H	F	OH	H	H
XI-27-8	p-F—Ph	*	H	*	^t Pr	H	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XI-28

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XI-28-1	p-Cl—Ph	H	H	H	^t Pr	H	H	F	OH	H	H
XI-28-2	p-Cl—Ph	H	H	CH ₃	^t Pr	H	H	F	OH	H	H
XI-28-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	^t Pr	H	H	F	OH	H	H
XI-28-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	^t Pr	H	H	F	OH	H	H
XI-28-5	p-Cl—Ph	H	H	CH ₂ Ph	^t Pr	H	H	F	OH	H	H
XI-28-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	^t Pr	H	H	F	OH	H	H
XI-28-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	^t Pr	H	H	F	OH	H	H
XI-28-8	p-Cl—Ph	*	H	*	^t Pr	H	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XI-29

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XI-29-1	p-Br—Ph	H	H	H	^t Pr	H	H	F	OH	H	H
XI-29-2	p-Br—Ph	H	H	CH ₃	^t Pr	H	H	F	OH	H	H
XI-29-3	p-Br—Ph	H	H	CH(CH ₃) ₂	^t Pr	H	H	F	OH	H	H
XI-29-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	^t Pr	H	H	F	OH	H	H
XI-29-5	p-Br—Ph	H	H	CH ₂ Ph	^t Pr	H	H	F	OH	H	H
XI-29-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	^t Pr	H	H	F	OH	H	H
XI-29-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	^t Pr	H	H	F	OH	H	H
XI-29-8	p-Br—Ph	*	H	*	^t Pr	H	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XI-30

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XI-30-1	p-I—Ph	H	H	H	^t Pr	H	H	F	OH	H	H
XI-30-2	p-I—Ph	H	H	CH ₃	^t Pr	H	H	F	OH	H	H
XI-30-3	p-I—Ph	H	H	CH(CH ₃) ₂	^t Pr	H	H	F	OH	H	H

TABLE XI-30-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XI-30-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH	H	H
XI-30-5	p-I—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	H	F	OH	H	H
XI-30-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	H	F	OH	H	H
XI-30-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	H	F	OH	H	H
XI-30-8	p-I—Ph	*	H	*	ⁱ Pr	H	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XI-31

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XI-31-1	CH ₃	H	H	H	ⁿ Bu	H	H	F	OH	H	H
XI-31-2	CH ₃	H	H	CH ₃	ⁿ Bu	H	H	F	OH	H	H
XI-31-3	CH ₃	H	H	CH(CH ₃) ₂	ⁿ Bu	H	H	F	OH	H	H
XI-31-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	H	F	OH	H	H
XI-31-5	CH ₃	H	H	CH ₂ Ph	ⁿ Bu	H	H	F	OH	H	H
XI-31-6	CH ₃	H	H	CH ₂ -indol-3-yl	ⁿ Bu	H	H	F	OH	H	H
XI-31-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	H	H	F	OH	H	H
XI-31-8	CH ₃	*	H	*	ⁿ Bu	H	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

25

TABLE XI-32

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XI-32-1	Et	H	H	H	ⁿ Bu	H	H	F	OH	H	H
XI-32-2	Et	H	H	CH ₃	ⁿ Bu	H	H	F	OH	H	H
XI-32-3	Et	H	H	CH(CH ₃) ₂	ⁿ Bu	H	H	F	OH	H	H
XI-32-4	Et	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	H	F	OH	H	H
XI-32-5	Et	H	H	CH ₂ Ph	ⁿ Bu	H	H	F	OH	H	H
XI-32-6	Et	H	H	CH ₂ -indol-3-yl	ⁿ Bu	H	H	F	OH	H	H
XI-32-7	Et	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	H	H	F	OH	H	H
XI-32-8	Et	*	H	*	ⁿ Bu	H	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XI-33

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XI-33-1	ⁱ Pr	H	H	H	ⁿ Bu	H	H	F	OH	H	H
XI-33-2	ⁱ Pr	H	H	CH ₃	ⁿ Bu	H	H	F	OH	H	H
XI-33-3	ⁱ Pr	H	H	CH(CH ₃) ₂	ⁿ Bu	H	H	F	OH	H	H
XI-33-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	H	F	OH	H	H
XI-33-5	ⁱ Pr	H	H	CH ₂ Ph	ⁿ Bu	H	H	F	OH	H	H
XI-33-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	ⁿ Bu	H	H	F	OH	H	H
XI-33-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	H	H	F	OH	H	H
XI-33-8	ⁱ Pr	*	H	*	ⁿ Bu	H	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XI-34

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XI-34-1	ⁿ Bu	H	H	H	ⁿ Bu	H	H	F	OH	H	H
XI-34-2	ⁿ Bu	H	H	CH ₃	ⁿ Bu	H	H	F	OH	H	H
XI-34-3	ⁿ Bu	H	H	CH(CH ₃) ₂	ⁿ Bu	H	H	F	OH	H	H
XI-34-4	ⁿ Bu	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	H	F	OH	H	H
XI-34-5	ⁿ Bu	H	H	CH ₂ Ph	ⁿ Bu	H	H	F	OH	H	H
XI-34-6	ⁿ Bu	H	H	CH ₂ -indol-3-yl	ⁿ Bu	H	H	F	OH	H	H
XI-34-7	ⁿ Bu	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	H	H	F	OH	H	H
XI-34-8	ⁿ Bu	*	H	*	ⁿ Bu	H	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XI-35

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XI-35-1	Ph	H	H	H	"Bu	H	H	F	OH	H	H
XI-35-2	Ph	H	H	CH ₃	"Bu	H	H	F	OH	H	H
XI-35-3	Ph	H	H	CH(CH ₃) ₂	"Bu	H	H	F	OH	H	H
XI-35-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	H	F	OH	H	H
XI-35-5	Ph	H	H	CH ₂ Ph	"Bu	H	H	F	OH	H	H
XI-35-6	Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	H	F	OH	H	H
XI-35-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	H	F	OH	H	H
XI-35-8	Ph	*	H	*	"Bu	H	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XI-36

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XI-36-1	p-Me—Ph	H	H	H	"Bu	H	H	F	OH	H	H
XI-36-2	p-Me—Ph	H	H	CH ₃	"Bu	H	H	F	OH	H	H
XI-36-3	p-Me—Ph	H	H	CH(CH ₃) ₂	"Bu	H	H	F	OH	H	H
XI-36-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	H	F	OH	H	H
XI-36-5	p-Me—Ph	H	H	CH ₂ Ph	"Bu	H	H	F	OH	H	H
XI-36-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	H	F	OH	H	H
XI-36-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	H	F	OH	H	H
XI-36-8	p-Me—Ph	*	H	*	"Bu	H	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XI-37

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XI-37-1	p-F—Ph	H	H	H	"Bu	H	H	F	OH	H	H
XI-37-2	p-F—Ph	H	H	CH ₃	"Bu	H	H	F	OH	H	H
XI-37-3	p-F—Ph	H	H	CH(CH ₃) ₂	"Bu	H	H	F	OH	H	H
XI-37-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	H	F	OH	H	H
XI-37-5	p-F—Ph	H	H	CH ₂ Ph	"Bu	H	H	F	OH	H	H
XI-37-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	H	F	OH	H	H
XI-37-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	H	F	OH	H	H
XI-37-8	p-F—Ph	*	H	*	"Bu	H	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XI-38

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XI-38-1	p-Cl—Ph	H	H	H	"Bu	H	H	F	OH	H	H
XI-38-2	p-Cl—Ph	H	H	CH ₃	"Bu	H	H	F	OH	H	H
XI-38-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	"Bu	H	H	F	OH	H	H
XI-38-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	H	F	OH	H	H
XI-38-5	p-Cl—Ph	H	H	CH ₂ Ph	"Bu	H	H	F	OH	H	H
XI-38-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	H	F	OH	H	H
XI-38-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	H	F	OH	H	H
XI-38-8	p-Cl—Ph	*	H	*	"Bu	H	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XI-39

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XI-39-1	p-Br—Ph	H	H	H	"Bu	H	H	F	OH	H	H
XI-39-2	p-Br—Ph	H	H	CH ₃	"Bu	H	H	F	OH	H	H
XI-39-3	p-Br—Ph	H	H	CH(CH ₃) ₂	"Bu	H	H	F	OH	H	H

TABLE XI-39-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XI-39-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	H	F	OH	H	H
XI-39-5	p-Br—Ph	H	H	CH ₂ Ph	"Bu	H	H	F	OH	H	H
XI-39-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	H	F	OH	H	H
XI-39-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	H	F	OH	H	H
XI-39-8	p-Br—Ph	*	H	*	"Bu	H	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XI-40

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XI-40-1	p-I—Ph	H	H	H	"Bu	H	H	F	OH	H	H
XI-40-2	p-I—Ph	H	H	CH ₃	"Bu	H	H	F	OH	H	H
XI-40-3	p-I—Ph	H	H	CH(CH ₃) ₂	"Bu	H	H	F	OH	H	H
XI-40-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	H	F	OH	H	H
XI-40-5	p-I—Ph	H	H	CH ₂ Ph	"Bu	H	H	F	OH	H	H
XI-40-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	H	F	OH	H	H
XI-40-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	H	F	OH	H	H
XI-40-8	p-I—Ph	*	H	*	"Bu	H	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XI-41

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XI-41-1	CH ₃	H	H	H	Bz	H	H	F	OH	H	H
XI-41-2	CH ₃	H	H	CH ₃	Bz	H	H	F	OH	H	H
XI-41-3	CH ₃	H	H	CH(CH ₃) ₂	Bz	H	H	F	OH	H	H
XI-41-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	H	F	OH	H	H
XI-41-5	CH ₃	H	H	CH ₂ Ph	Bz	H	H	F	OH	H	H
XI-41-6	CH ₃	H	H	CH ₂ -indol-3-yl	Bz	H	H	F	OH	H	H
XI-41-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	H	F	OH	H	H
XI-41-8	CH ₃	*	H	*	Bz	H	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XI-42

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XI-42-1	Et	H	H	H	Bz	H	H	F	OH	H	H
XI-42-2	Et	H	H	CH ₃	Bz	H	H	F	OH	H	H
XI-42-3	Et	H	H	CH(CH ₃) ₂	Bz	H	H	F	OH	H	H
XI-42-4	Et	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	H	F	OH	H	H
XI-42-5	Et	H	H	CH ₂ Ph	Bz	H	H	F	OH	H	H
XI-42-6	Et	H	H	CH ₂ -indol-3-yl	Bz	H	H	F	OH	H	H
XI-42-7	Et	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	H	F	OH	H	H
XI-42-8	Et	*	H	*	Bz	H	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XI-43

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XI-43-1	ⁱ Pr	H	H	H	Bz	H	H	F	OH	H	H
XI-43-2	ⁱ Pr	H	H	CH ₃	Bz	H	H	F	OH	H	H
XI-43-3	ⁱ Pr	H	H	CH(CH ₃) ₂	Bz	H	H	F	OH	H	H
XI-43-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	H	F	OH	H	H
XI-43-5	ⁱ Pr	H	H	CH ₂ Ph	Bz	H	H	F	OH	H	H
XI-43-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	Bz	H	H	F	OH	H	H

25

TABLE XI-43-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XI-43-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	H	F	OH	H	H
XI-43-8	ⁱ Pr	*	H	*	Bz	H	H	F	OH	H	H

30

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

35

TABLE XI-44

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XI-44-1	"Bu	H	H	H	Bz	H	H	F	OH	H	H
XI-44-2	"Bu	H	H	CH ₃	Bz	H	H	F	OH	H	H
XI-44-3	"Bu	H	H	CH(CH ₃) ₂	Bz	H	H	F	OH	H	H
XI-44-4	"Bu	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	H	F	OH	H	H
XI-44-5	"Bu	H	H	CH ₂ Ph	Bz	H	H	F	OH	H	H
XI-44-6	"Bu	H	H	CH ₂ -indol-3-yl	Bz	H	H	F	OH	H	H
XI-44-7	"Bu	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	H	F	OH	H	H
XI-44-8	"Bu	*	H	*	Bz	H	H	F	OH	H	H

40

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

45

TABLE XI-45

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XI-45-1	Ph	H	H	H	Bz	H	H	F	OH	H	H
XI-45-2	Ph	H	H	CH ₃	Bz	H	H	F	OH	H	H
XI-45-3	Ph	H	H	CH(CH ₃) ₂	Bz	H	H	F	OH	H	H
XI-45-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	H	F	OH	H	H
XI-45-5	Ph	H	H	CH ₂ Ph	Bz	H	H	F	OH	H	H
XI-45-6	Ph	H	H	CH ₂ -indol-3-yl	Bz	H	H	F	OH	H	H
XI-45-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	H	F	OH	H	H
XI-45-8	Ph	*	H	*	Bz	H	H	F	OH	H	H

50

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

55

TABLE XI-46

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XI-46-1	p-Me—Ph	H	H	H	Bz	H	H	F	OH	H	H
XI-46-2	p-Me—Ph	H	H	CH ₃	Bz	H	H	F	OH	H	H
XI-46-3	p-Me—Ph	H	H	CH(CH ₃) ₂	Bz	H	H	F	OH	H	H
XI-46-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	H	F	OH	H	H
XI-46-5	p-Me—Ph	H	H	CH ₂ Ph	Bz	H	H	F	OH	H	H
XI-46-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	H	F	OH	H	H
XI-46-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	H	F	OH	H	H
XI-46-8	p-Me—Ph	*	H	*	Bz	H	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XI-47

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XI-47-1	p-F—Ph	H	H	H	Bz	H	H	F	OH	H	H
XI-47-2	p-F—Ph	H	H	CH ₃	Bz	H	H	F	OH	H	H
XI-47-3	p-F—Ph	H	H	CH(CH ₃) ₂	Bz	H	H	F	OH	H	H
XI-47-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	H	F	OH	H	H
XI-47-5	p-F—Ph	H	H	CH ₂ Ph	Bz	H	H	F	OH	H	H
XI-47-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	H	F	OH	H	H
XI-47-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	H	F	OH	H	H
XI-47-8	p-F—Ph	*	H	*	Bz	H	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XI-48

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XI-48-1	p-Cl—Ph	H	H	H	Bz	H	H	F	OH	H	H
XI-48-2	p-Cl—Ph	H	H	CH ₃	Bz	H	H	F	OH	H	H
XI-48-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	Bz	H	H	F	OH	H	H
XI-48-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	H	F	OH	H	H
XI-48-5	p-Cl—Ph	H	H	CH ₂ Ph	Bz	H	H	F	OH	H	H
XI-48-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	H	F	OH	H	H
XI-48-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	H	F	OH	H	H
XI-48-8	p-Cl—Ph	*	H	*	Bz	H	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XI-49

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XI-49-1	p-Br—Ph	H	H	H	Bz	H	H	F	OH	H	H
XI-49-2	p-Br—Ph	H	H	CH ₃	Bz	H	H	F	OH	H	H
XI-49-3	p-Br—Ph	H	H	CH(CH ₃) ₂	Bz	H	H	F	OH	H	H
XI-49-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	H	F	OH	H	H
XI-49-5	p-Br—Ph	H	H	CH ₂ Ph	Bz	H	H	F	OH	H	H
XI-49-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	H	F	OH	H	H
XI-49-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	H	F	OH	H	H
XI-49-8	p-Br—Ph	*	H	*	Bz	H	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XI-50

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XI-50-1	p-I—Ph	H	H	H	Bz	H	H	F	OH	H	H
XI-50-2	p-I—Ph	H	H	CH ₃	Bz	H	H	F	OH	H	H
XI-50-3	p-I—Ph	H	H	CH(CH ₃) ₂	Bz	H	H	F	OH	H	H
XI-50-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	H	F	OH	H	H
XI-50-5	p-I—Ph	H	H	CH ₂ Ph	Bz	H	H	F	OH	H	H

TABLE XI-50-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XI-50-6	p-I-Ph	H	H	CH ₂ -indol-3-yl	Bz	H	H	F	OH	H	H
XI-50-7	p-I-Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	H	F	OH	H	H
XI-50-8	p-I-Ph	*	H	*	Bz	H	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

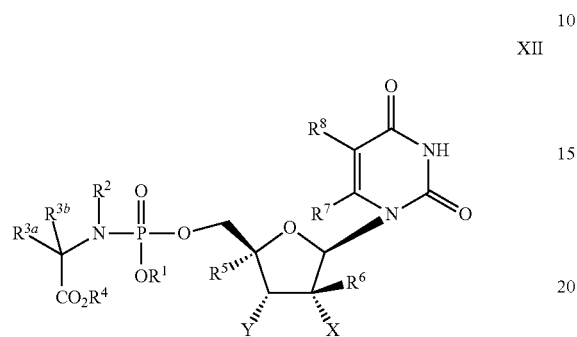


TABLE XII-1

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XII-1-1	CH ₃	H	H	H	CH ₃	N ₃	F	F	OH	H	H
XII-1-2	CH ₃	H	H	CH ₃	CH ₃	N ₃	F	F	OH	H	H
XII-1-3	CH ₃	H	H	CH(CH ₃) ₂	CH ₃	N ₃	F	F	OH	H	H
XII-1-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	N ₃	F	F	OH	H	H
XII-1-5	CH ₃	H	H	CH ₂ Ph	CH ₃	N ₃	F	F	OH	H	H
XII-1-6	CH ₃	H	H	CH ₂ -indol-3-yl	CH ₃	N ₃	F	F	OH	H	H
XII-1-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	N ₃	F	F	OH	H	H
XII-1-8	CH ₃	*	H	*	CH ₃	N ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XII-2

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XII-2-1	Et	H	H	H	CH ₃	N ₃	F	F	OH	H	H
XII-2-2	Et	H	H	CH ₃	CH ₃	N ₃	F	F	OH	H	H
XII-2-3	Et	H	H	CH(CH ₃) ₂	CH ₃	N ₃	F	F	OH	H	H
XII-2-4	Et	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	N ₃	F	F	OH	H	H
XII-2-5	Et	H	H	CH ₂ Ph	CH ₃	N ₃	F	F	OH	H	H
XII-2-6	Et	H	H	CH ₂ -indol-3-yl	CH ₃	N ₃	F	F	OH	H	H
XII-2-7	Et	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	N ₃	F	F	OH	H	H
XII-2-8	Et	*	H	*	CH ₃	N ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XII-3

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XII-3-1	ⁱ Pr	H	H	H	CH ₃	N ₃	F	F	OH	H	H
XII-3-2	ⁱ Pr	H	H	CH ₃	CH ₃	N ₃	F	F	OH	H	H
XII-3-3	ⁱ Pr	H	H	CH(CH ₃) ₂	CH ₃	N ₃	F	F	OH	H	H
XII-3-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	N ₃	F	F	OH	H	H

TABLE XII-3-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
40											
XII-3-4	ⁱ Pr	H	H	CH ₂ Ph	CH ₃	N ₃	F	F	OH	H	H
XII-3-5	ⁱ Pr	H	H	CH ₂ -indol-3-yl	CH ₃	N ₃	F	F	OH	H	H
45											
XII-3-6	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	N ₃	F	F	OH	H	H
XII-3-7	ⁱ Pr	*	H	*	CH ₃	N ₃	F	F	OH	H	H
XII-3-8											

50 *R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XII-4

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
55											
XII-4-1	^t Bu	H	H	H	CH ₃	N ₃	F	F	OH	H	H
XII-4-2	^t Bu	H	H	CH ₃	CH ₃	N ₃	F	F	OH	H	H
XII-4-3	^t Bu	H	H	CH(CH ₃) ₂	CH ₃	N ₃	F	F	OH	H	H
60											
XII-4-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	N ₃	F	F	OH	H	H
XII-4-5	^t Bu	H	H	CH ₂ Ph	CH ₃	N ₃	F	F	OH	H	H
XII-4-6	^t Bu	H	H	CH ₂ -indol-3-yl	CH ₃	N ₃	F	F	OH	H	H
65											
XII-4-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	N ₃	F	F	OH	H	H

269

TABLE XII-4-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XII-4-8	t-Bu	*	H	*	CH ₃	N ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XII-5

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XII-5-1	Ph	H	H	H	CH ₃	N ₃	F	F	OH	H	H
XII-5-2	Ph	H	H	CH ₃	CH ₃	N ₃	F	F	OH	H	H

270

TABLE XII-5-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
5 XII-5-3	Ph	H	H	CH(CH ₃) ₂	CH ₃	N ₃	F	F	OH	H	H
XII-5-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	N ₃	F	F	OH	H	H
XII-5-5	Ph	H	H	CH ₂ Ph	CH ₃	N ₃	F	F	OH	H	H
10 XII-5-6	Ph	H	H	CH ₂ -indol-3-yl	CH ₃	N ₃	F	F	OH	H	H
XII-5-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	N ₃	F	F	OH	H	H
XII-5-8	Ph	*	H	*	CH ₃	N ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XII-6

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XII-6-1	p-Me—Ph	H	H	H	CH ₃	N ₃	F	F	OH	H	H
XII-6-2	p-Me—Ph	H	H	CH ₃	CH ₃	N ₃	F	F	OH	H	H
XII-6-3	p-Me—Ph	H	H	CH(CH ₃) ₂	CH ₃	N ₃	F	F	OH	H	H
XII-6-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	N ₃	F	F	OH	H	H
XII-6-5	p-Me—Ph	H	H	CH ₂ Ph	CH ₃	N ₃	F	F	OH	H	H
XII-6-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	N ₃	F	F	OH	H	H
XII-6-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	N ₃	F	F	OH	H	H
XII-6-8	p-Me—Ph	*	H	*	CH ₃	N ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XII-7

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XII-7-1	p-F—Ph	H	H	H	CH ₃	N ₃	F	F	OH	H	H
XII-7-2	p-F—Ph	H	H	CH ₃	CH ₃	N ₃	F	F	OH	H	H
XII-7-3	p-F—Ph	H	H	CH(CH ₃) ₂	CH ₃	N ₃	F	F	OH	H	H
XII-7-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	N ₃	F	F	OH	H	H
XII-7-6	p-F—Ph	H	H	CH ₂ Ph	CH ₃	N ₃	F	F	OH	H	H
XII-7-7	p-F—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	N ₃	F	F	OH	H	H
XII-7-8	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	N ₃	F	F	OH	H	H
XII-7-20	p-F—Ph	*	H	*	CH ₃	N ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XII-8

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XII-8-1	p-Cl—Ph	H	H	H	CH ₃	N ₃	F	F	OH	H	H
XII-8-2	p-Cl—Ph	H	H	CH ₃	CH ₃	N ₃	F	F	OH	H	H
XII-8-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	CH ₃	N ₃	F	F	OH	H	H
XII-8-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	N ₃	F	F	OH	H	H
XII-8-5	p-Cl—Ph	H	H	CH ₂ Ph	CH ₃	N ₃	F	F	OH	H	H
XII-8-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	N ₃	F	F	OH	H	H
XII-8-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	N ₃	F	F	OH	H	H
XII-8-8	p-Cl—Ph	*	H	*	CH ₃	N ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XII-9

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XII-9-1	p-Br—Ph	H	H	H	CH ₃	N ₃	F	F	OH	H	H
XII-9-2	p-Br—Ph	H	H	CH ₃	CH ₃	N ₃	F	F	OH	H	H
XII-9-3	p-Br—Ph	H	H	CH(CH ₃) ₂	CH ₃	N ₃	F	F	OH	H	H

TABLE XII-9-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XII-9-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	N ₃	F	F	OH	H	H
XII-9-6	p-Br—Ph	H	H	CH ₂ Ph	CH ₃	N ₃	F	F	OH	H	H
XII-9-7	p-Br—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	N ₃	F	F	OH	H	H
XII-9-8	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	N ₃	F	F	OH	H	H
XII-9-20	p-Br—Ph	*	H	*	CH ₃	N ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XII-10

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XII-10-1	p-I—Ph	H	H	H	CH ₃	N ₃	F	F	OH	H	H
XII-10-2	p-I—Ph	H	H	CH ₃	CH ₃	N ₃	F	F	OH	H	H
XII-10-3	p-I—Ph	H	H	CH(CH ₃) ₂	CH ₃	N ₃	F	F	OH	H	H
XII-10-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	N ₃	F	F	OH	H	H
XII-10-5	p-I—Ph	H	H	CH ₂ Ph	CH ₃	N ₃	F	F	OH	H	H
XII-10-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	N ₃	F	F	OH	H	H
XII-10-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	N ₃	F	F	OH	H	H
XII-10-8	p-I—Ph	*	H	*	CH ₃	N ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XII-11

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XII-11-1	CH ₃	H	H	H	Et	N ₃	F	F	OH	H	H
XII-11-2	CH ₃	H	H	CH ₃	Et	N ₃	F	F	OH	H	H
XII-11-3	CH ₃	H	H	CH(CH ₃) ₂	Et	N ₃	F	F	OH	H	H
XII-11-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	Et	N ₃	F	F	OH	H	H
XII-11-5	CH ₃	H	H	CH ₂ Ph	Et	N ₃	F	F	OH	H	H
XII-11-6	CH ₃	H	H	CH ₂ -indol-3-yl	Et	N ₃	F	F	OH	H	H
XII-11-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	Et	N ₃	F	F	OH	H	H
XII-11-8	CH ₃	*	H	*	Et	N ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XII-12

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XII-12-1	Et	H	H	H	Et	N ₃	F	F	OH	H	H
XII-12-2	Et	H	H	CH ₃	Et	N ₃	F	F	OH	H	H
XII-12-3	Et	H	H	CH(CH ₃) ₂	Et	N ₃	F	F	OH	H	H
XII-12-4	Et	H	H	CH ₂ CH(CH ₃) ₂	Et	N ₃	F	F	OH	H	H
XII-12-5	Et	H	H	CH ₂ Ph	Et	N ₃	F	F	OH	H	H
XII-12-6	Et	H	H	CH ₂ -indol-3-yl	Et	N ₃	F	F	OH	H	H
XII-12-7	Et	H	H	CH ₂ CH ₂ SCH ₃	Et	N ₃	F	F	OH	H	H
XII-12-8	Et	*	H	*	Et	N ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XII-13

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XII-13-1	ⁱ Pr	H	H	H	Et	N ₃	F	F	OH	H	H
XII-13-2	ⁱ Pr	H	H	CH ₃	Et	N ₃	F	F	OH	H	H
XII-13-3	ⁱ Pr	H	H	CH(CH ₃) ₂	Et	N ₃	F	F	OH	H	H
XII-13-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	Et	N ₃	F	F	OH	H	H
XII-13-5	ⁱ Pr	H	H	CH ₂ Ph	Et	N ₃	F	F	OH	H	H
XII-13-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	Et	N ₃	F	F	OH	H	H

25

TABLE XII-13-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XII-13-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	Et	N ₃	F	F	OH	H	H
XII-13-8	ⁱ Pr	*	H	*	Et	N ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

35

TABLE XII-14

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XII-14-1	'Bu	H	H	H	Et	N ₃	F	F	OH	H	H
XII-14-2	'Bu	H	H	CH ₃	Et	N ₃	F	F	OH	H	H
XII-14-3	'Bu	H	H	CH(CH ₃) ₂	Et	N ₃	F	F	OH	H	H
XII-14-4	'Bu	H	H	CH ₂ CH(CH ₃) ₂	Et	N ₃	F	F	OH	H	H
XII-14-5	'Bu	H	H	CH ₂ Ph	Et	N ₃	F	F	OH	H	H
XII-14-6	'Bu	H	H	CH ₂ -indol-3-yl	Et	N ₃	F	F	OH	H	H
XII-14-7	'Bu	H	H	CH ₂ CH ₂ SCH ₃	Et	N ₃	F	F	OH	H	H
XII-14-8	'Bu	*	H	*	Et	N ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

55

TABLE XII-15

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XII-15-1	Ph	H	H	H	Et	N ₃	F	F	OH	H	H
XII-15-2	Ph	H	H	CH ₃	Et	N ₃	F	F	OH	H	H
XII-15-3	Ph	H	H	CH(CH ₃) ₂	Et	N ₃	F	F	OH	H	H
XII-15-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	N ₃	F	F	OH	H	H
XII-15-5	Ph	H	H	CH ₂ Ph	Et	N ₃	F	F	OH	H	H
XII-15-6	Ph	H	H	CH ₂ -indol-3-yl	Et	N ₃	F	F	OH	H	H
XII-15-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	N ₃	F	F	OH	H	H
XII-15-8	Ph	*	H	*	Et	N ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XII-16

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XII-16-1	p-Me—Ph	H	H	H	Et	N ₃	F	F	OH	H	H
XII-16-2	p-Me—Ph	H	H	CH ₃	Et	N ₃	F	F	OH	H	H
XII-16-3	p-Me—Ph	H	H	CH(CH ₃) ₂	Et	N ₃	F	F	OH	H	H
XII-16-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	N ₃	F	F	OH	H	H
XII-16-5	p-Me—Ph	H	H	CH ₂ Ph	Et	N ₃	F	F	OH	H	H
XII-16-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	Et	N ₃	F	F	OH	H	H
XII-16-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	N ₃	F	F	OH	H	H
XII-16-8	p-Me—Ph	*	H	*	Et	N ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XII-17

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XII-17-1	p-F—Ph	H	H	H	Et	N ₃	F	F	OH	H	H
XII-17-2	p-F—Ph	H	H	CH ₃	Et	N ₃	F	F	OH	H	H
XII-17-3	p-F—Ph	H	H	CH(CH ₃) ₂	Et	N ₃	F	F	OH	H	H
XII-17-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	N ₃	F	F	OH	H	H
XII-17-5	p-F—Ph	H	H	CH ₂ Ph	Et	N ₃	F	F	OH	H	H
XII-17-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	Et	N ₃	F	F	OH	H	H
XII-17-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	N ₃	F	F	OH	H	H
XII-17-8	p-F—Ph	*	H	*	Et	N ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XII-18

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XII-18-1	p-Cl—Ph	H	H	H	Et	N ₃	F	F	OH	H	H
XII-18-2	p-Cl—Ph	H	H	CH ₃	Et	N ₃	F	F	OH	H	H
XII-18-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	Et	N ₃	F	F	OH	H	H
XII-18-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	N ₃	F	F	OH	H	H
XII-18-5	p-Cl—Ph	H	H	CH ₂ Ph	Et	N ₃	F	F	OH	H	H
XII-18-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	Et	N ₃	F	F	OH	H	H
XII-18-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	N ₃	F	F	OH	H	H
XII-18-8	p-Cl—Ph	*	H	*	Et	N ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XII-19

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XII-19-1	p-Br—Ph	H	H	H	Et	N ₃	F	F	OH	H	H
XII-19-2	p-Br—Ph	H	H	CH ₃	Et	N ₃	F	F	OH	H	H
XII-19-3	p-Br—Ph	H	H	CH(CH ₃) ₂	Et	N ₃	F	F	OH	H	H
XII-19-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	N ₃	F	F	OH	H	H
XII-19-5	p-Br—Ph	H	H	CH ₂ Ph	Et	N ₃	F	F	OH	H	H
XII-19-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	Et	N ₃	F	F	OH	H	H
XII-19-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	N ₃	F	F	OH	H	H
XII-19-8	p-Br—Ph	*	H	*	Et	N ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XII-20

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷
XII-20-1	p-I—Ph	H	H	H	Et	N ₃	F	F	OH	H
XII-20-2	p-I—Ph	H	H	CH ₃	Et	N ₃	F	F	OH	H
XII-20-3	p-I—Ph	H	H	CH(CH ₃) ₂	Et	N ₃	F	F	OH	H

TABLE XII-20-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷
XII-20-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	N ₃	F	F	OH	H
XII-20-5	p-I—Ph	H	H	CH ₂ Ph	Et	N ₃	F	F	OH	H
XII-20-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	Et	N ₃	F	F	OH	H
XII-20-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	N ₃	F	F	OH	H

275

TABLE XII-20-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XII-20-8	p-I—Ph	*	H	*	Et	N ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XII-21

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XII-21-1	CH ₃	H	H	H	ⁱ Pr	N ₃	F	F	OH	H	H
XII-21-2	CH ₃	H	H	CH ₃	ⁱ Pr	N ₃	F	F	OH	H	H
XII-21-3	CH ₃	H	H	CH(CH ₃) ₂	ⁱ Pr	N ₃	F	F	OH	H	H
XII-21-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	N ₃	F	F	OH	H	H
XII-21-5	CH ₃	H	H	CH ₂ Ph	ⁱ Pr	N ₃	F	F	OH	H	H
XII-21-6	CH ₃	H	H	CH ₂ -indol-3-yl	ⁱ Pr	N ₃	F	F	OH	H	H
XII-21-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	N ₃	F	F	OH	H	H
XII-21-8	CH ₃	*	H	*	ⁱ Pr	N ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XII-22

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XII-22-1	Et	H	H	H	ⁱ Pr	N ₃	F	F	OH	H	H
XII-22-2	Et	H	H	CH ₃	ⁱ Pr	N ₃	F	F	OH	H	H
XII-22-3	Et	H	H	CH(CH ₃) ₂	ⁱ Pr	N ₃	F	F	OH	H	H
XII-22-4	Et	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	N ₃	F	F	OH	H	H
XII-22-5	Et	H	H	CH ₂ Ph	ⁱ Pr	N ₃	F	F	OH	H	H
XII-22-6	Et	H	H	CH ₂ -indol-3-yl	ⁱ Pr	N ₃	F	F	OH	H	H
XII-22-7	Et	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	N ₃	F	F	OH	H	H
XII-22-8	Et	*	H	*	ⁱ Pr	N ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XII-23

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XII-23-1	ⁱ Pr	H	H	H	ⁱ Pr	N ₃	F	F	OH	H	H
XII-23-2	ⁱ Pr	H	H	CH ₃	ⁱ Pr	N ₃	F	F	OH	H	H

276

TABLE XII-23-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
5 XII-23-3	ⁱ Pr	H	H	CH(CH ₃) ₂	ⁱ Pr	N ₃	F	F	OH	H	H
XII-23-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	N ₃	F	F	OH	H	H
10 XII-23-5	ⁱ Pr	H	H	CH ₂ Ph	ⁱ Pr	N ₃	F	F	OH	H	H
XII-23-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	ⁱ Pr	N ₃	F	F	OH	H	H
XII-23-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	N ₃	F	F	OH	H	H
15 XII-23-8	ⁱ Pr	*	H	*	ⁱ Pr	N ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XII-24

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
20 XII-24-1	^t Bu	H	H	H	ⁱ Pr	N ₃	F	F	OH	H	H
XII-24-2	^t Bu	H	H	CH ₃	ⁱ Pr	N ₃	F	F	OH	H	H
25 XII-24-3	^t Bu	H	H	CH(CH ₃) ₂	ⁱ Pr	N ₃	F	F	OH	H	H
XII-24-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	N ₃	F	F	OH	H	H
XII-24-5	^t Bu	H	H	CH ₂ Ph	ⁱ Pr	N ₃	F	F	OH	H	H
30 XII-24-6	^t Bu	H	H	CH ₂ -indol-3-yl	ⁱ Pr	N ₃	F	F	OH	H	H
XII-24-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	N ₃	F	F	OH	H	H
35 XII-24-8	^t Bu	*	H	*	ⁱ Pr	N ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XII-25

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
40 XII-25-1	Ph	H	H	H	ⁱ Pr	N ₃	F	F	OH	H	H
XII-25-2	Ph	H	H	CH ₃	ⁱ Pr	N ₃	F	F	OH	H	H
45 XII-25-3	Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	N ₃	F	F	OH	H	H
XII-25-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	N ₃	F	F	OH	H	H
XII-25-5	Ph	H	H	CH ₂ Ph	ⁱ Pr	N ₃	F	F	OH	H	H
50 XII-25-6	Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	N ₃	F	F	OH	H	H
XII-25-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	N ₃	F	F	OH	H	H
55 XII-25-8	Ph	*	H	*	ⁱ Pr	N ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XII-26

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XII-26-1	p-Me—Ph	H	H	H	ⁱ Pr	N ₃	F	F	OH	H	H
XII-26-2	p-Me—Ph	H	H	CH ₃	ⁱ Pr	N ₃	F	F	OH	H	H
XII-26-3	p-Me—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	N ₃	F	F	OH	H	H
XII-26-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	N ₃	F	F	OH	H	H
XII-26-5	p-Me—Ph	H	H	CH ₂ Ph	ⁱ Pr	N ₃	F	F	OH	H	H

TABLE XII-26-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XII-26-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	^t Pr	N ₃	F	F	OH	H	H
XII-26-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	^t Pr	N ₃	F	F	OH	H	H
XII-26-8	p-Me—Ph	*	H	*	^t Pr	N ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XII-27

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XII-27-1	p-F—Ph	H	H	H	^t Pr	N ₃	F	F	OH	H	H
XII-27-2	p-F—Ph	H	H	CH ₃	^t Pr	N ₃	F	F	OH	H	H
XII-27-3	p-F—Ph	H	H	CH(CH ₃) ₂	^t Pr	N ₃	F	F	OH	H	H
XII-27-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	^t Pr	N ₃	F	F	OH	H	H
XII-27-5	p-F—Ph	H	H	CH ₂ Ph	^t Pr	N ₃	F	F	OH	H	H
XII-27-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	^t Pr	N ₃	F	F	OH	H	H
XII-27-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	^t Pr	N ₃	F	F	OH	H	H
XII-27-8	p-F—Ph	*	H	*	^t Pr	N ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XII-28

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XII-28-1	p-Cl—Ph	H	H	H	^t Pr	N ₃	F	F	OH	H	H
XII-28-2	p-Cl—Ph	H	H	CH ₃	^t Pr	N ₃	F	F	OH	H	H
XII-28-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	^t Pr	N ₃	F	F	OH	H	H
XII-28-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	^t Pr	N ₃	F	F	OH	H	H
XII-28-5	p-Cl—Ph	H	H	CH ₂ Ph	^t Pr	N ₃	F	F	OH	H	H
XII-28-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	^t Pr	N ₃	F	F	OH	H	H
XII-28-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	^t Pr	N ₃	F	F	OH	H	H
XII-28-8	p-Cl—Ph	*	H	*	^t Pr	N ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XII-29

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XII-29-1	p-Br—Ph	H	H	H	^t Pr	N ₃	F	F	OH	H	H
X11-29-2	p-Br—Ph	H	H	CH ₃	^t Pr	N ₃	F	F	OH	H	H
XII-29-3	p-Br—Ph	H	H	CH(CH ₃) ₂	^t Pr	N ₃	F	F	OH	H	H
X11-29-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	^t Pr	N ₃	F	F	OH	H	H
XII-29-5	p-Br—Ph	H	H	CH ₂ Ph	^t Pr	N ₃	F	F	OH	H	H
XII-29-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	^t Pr	N ₃	F	F	OH	H	H
XII-29-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	^t Pr	N ₃	F	F	OH	H	H
XII-29-8	p-Br—Ph	*	H	*	^t Pr	N ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XII-30

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XII-30-1	p-I—Ph	H	H	H	^t Pr	N ₃	F	F	OH	H	H
XII-30-2	p-I—Ph	H	H	CH ₃	^t Pr	N ₃	F	F	OH	H	H
XII-30-3	p-I—Ph	H	H	CH(CH ₃) ₂	^t Pr	N ₃	F	F	OH	H	H
XII-30-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	^t Pr	N ₃	F	F	OH	H	H
XII-30-5	p-I—Ph	H	H	CH ₂ Ph	^t Pr	N ₃	F	F	OH	H	H
XII-30-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	^t Pr	N ₃	F	F	OH	H	H
XII-30-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	^t Pr	N ₃	F	F	OH	H	H
XII-30-8	p-I—Ph	*	H	*	^t Pr	N ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

279

TABLE XII-31

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XII-31-1	CH ₃	H	H	H	"Bu N ₃	F	F		OH	H	H
XII-31-2	CH ₃	H	H	CH ₃	"Bu N ₃	F	F		OH	H	H
XII-31-3	CH ₃	H	H	CH(CH ₃) ₂	"Bu N ₃	F	F		OH	H	H
XII-31-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	"Bu N ₃	F	F		OH	H	H
XII-31-5	CH ₃	H	H	CH ₂ Ph	"Bu N ₃	F	F		OH	H	H
XII-31-6	CH ₃	H	H	CH ₂ -indol-3-yl	"Bu N ₃	F	F		OH	H	H
XII-31-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	"Bu N ₃	F	F		OH	H	H
XII-31-8	CH ₃	*	H	*	"Bu N ₃	F	F		OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XII-32

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XII-32-1	Et	H	H	H	"Bu N ₃	F	F		OH	H	H
XII-32-2	Et	H	H	CH ₃	"Bu N ₃	F	F		OH	H	H
XII-32-3	Et	H	H	CH(CH ₃) ₂	"Bu N ₃	F	F		OH	H	H
XII-32-4	Et	H	H	CH ₂ CH(CH ₃) ₂	"Bu N ₃	F	F		OH	H	H
XII-32-5	Et	H	H	CH ₂ Ph	"Bu N ₃	F	F		OH	H	H
XII-32-6	Et	H	H	CH ₂ -indol-3-yl	"Bu N ₃	F	F		OH	H	H
XII-32-7	Et	H	H	CH ₂ CH ₂ SCH ₃	"Bu N ₃	F	F		OH	H	H
XII-32-8	Et	*	H	*	"Bu N ₃	F	F		OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XII-33

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XII-33-1	ⁱ Pr	H	H	H	"Bu N ₃	F	F		OH	H	H
XII-33-2	ⁱ Pr	H	H	CH ₃	"Bu N ₃	F	F		OH	H	H

280

TABLE XII-33-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
5 XII-33-3	ⁱ Pr	H	H	CH(CH ₃) ₂	"Bu N ₃	F	F		OH	H	H
XII-33-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	"Bu N ₃	F	F		OH	H	H
XII-33-5	ⁱ Pr	H	H	CH ₂ Ph	"Bu N ₃	F	F		OH	H	H
XII-33-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	"Bu N ₃	F	F		OH	H	H
XII-33-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	"Bu N ₃	F	F		OH	H	H
10 XII-33-8	ⁱ Pr	*	H	*	"Bu N ₃	F	F		OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XII-34

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XII-34-1	^t Bu	H	H	H	"Bu N ₃	F	F		OH	H	H
XII-34-2	^t Bu	H	H	CH ₃	"Bu N ₃	F	F		OH	H	H
XII-34-3	^t Bu	H	H	CH(CH ₃) ₂	"Bu N ₃	F	F		OH	H	H
XII-34-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	"Bu N ₃	F	F		OH	H	H
XII-34-5	^t Bu	H	H	CH ₂ Ph	"Bu N ₃	F	F		OH	H	H
XII-34-6	^t Bu	H	H	CH ₂ -indol-3-yl	"Bu N ₃	F	F		OH	H	H
XII-34-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	"Bu N ₃	F	F		OH	H	H
XII-34-8	^t Bu	*	H	*	"Bu N ₃	F	F		OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XII-35

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
30 XII-35-1	Ph	H	H	H	"Bu N ₃	F	F		OH	H	H
XII-35-2	Ph	H	H	CH ₃	"Bu N ₃	F	F		OH	H	H
XII-35-3	Ph	H	H	CH(CH ₃) ₂	"Bu N ₃	F	F		OH	H	H
XII-35-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu N ₃	F	F		OH	H	H
XII-35-5	Ph	H	H	CH ₂ Ph	"Bu N ₃	F	F		OH	H	H
XII-35-6	Ph	H	H	CH ₂ -indol-3-yl	"Bu N ₃	F	F		OH	H	H
XII-35-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu N ₃	F	F		OH	H	H
35 XII-35-8	Ph	*	H	*	"Bu N ₃	F	F		OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XII-36

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XII-36-1	p-Me-Ph	H	H	H	"Bu N ₃	F	F		OH	H	H
XII-36-2	p-Me-Ph	H	H	CH ₃	"Bu N ₃	F	F		OH	H	H
XII-36-3	p-Me-Ph	H	H	CH(CH ₃) ₂	"Bu N ₃	F	F		OH	H	H
XII-36-4	p-Me-Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu N ₃	F	F		OH	H	H
XII-36-5	p-Me-Ph	H	H	CH ₂ Ph	"Bu N ₃	F	F		OH	H	H
XII-36-6	p-Me-Ph	H	H	CH ₂ -indol-3-yl	"Bu N ₃	F	F		OH	H	H
XII-36-7	p-Me-Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu N ₃	F	F		OH	H	H
XII-36-8	p-Me-Ph	*	H	*	"Bu N ₃	F	F		OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XII-37

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XII-37-1	p-F-Ph	H	H	H	"Bu N ₃	F	F		OH	H	H
XII-37-2	p-F-Ph	H	H	CH ₃	"Bu N ₃	F	F		OH	H	H
XII-37-3	p-F-Ph	H	H	CH(CH ₃) ₂	"Bu N ₃	F	F		OH	H	H
XII-37-4	p-F-Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu N ₃	F	F		OH	H	H
XII-37-5	p-F-Ph	H	H	CH ₂ Ph	"Bu N ₃	F	F		OH	H	H
XII-37-6	p-F-Ph	H	H	CH ₂ -indol-3-yl	"Bu N ₃	F	F		OH	H	H
XII-37-7	p-F-Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu N ₃	F	F		OH	H	H
XII-37-8	p-F-Ph	*	H	*	"Bu N ₃	F	F		OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XII-38

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XII-38-1	p-Cl—Ph	H	H	H	"Bu	N ₃	F	F	OH	H	H
XII-38-2	p-Cl—Ph	H	H	CH ₃	"Bu	N ₃	F	F	OH	H	H
XII-38-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	"Bu	N ₃	F	F	OH	H	H
XII-38-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	N ₃	F	F	OH	H	H
XII-38-5	p-Cl—Ph	H	H	CH ₂ Ph	"Bu	N ₃	F	F	OH	H	H
XII-38-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	"Bu	N ₃	F	F	OH	H	H
XII-38-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	N ₃	F	F	OH	H	H
XII-38-8	p-Cl—Ph	*	H	*	"Bu	N ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XII-39

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XII-39-1	p-Br—Ph	H	H	H	"Bu	N ₃	F	F	OH	H	H
XII-39-2	p-Br—Ph	H	H	CH ₃	"Bu	N ₃	F	F	OH	H	H
XII-39-3	p-Br—Ph	H	H	CH(CH ₃) ₂	"Bu	N ₃	F	F	OH	H	H
XII-39-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	N ₃	F	F	OH	H	H
XII-39-5	p-Br—Ph	H	H	CH ₂ Ph	"Bu	N ₃	F	F	OH	H	H
XII-39-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	"Bu	N ₃	F	F	OH	H	H
XII-39-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	N ₃	F	F	OH	H	H
XII-39-8	p-Br—Ph	*	H	*	"Bu	N ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XII-40

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XII-40-1	p-I—Ph	H	H	H	"Bu	N ₃	F	F	OH	H	H
XII-40-2	p-I—Ph	H	H	CH ₃	"Bu	N ₃	F	F	OH	H	H
XII-40-3	p-I—Ph	H	H	CH(CH ₃) ₂	"Bu	N ₃	F	F	OH	H	H
XII-40-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	N ₃	F	F	OH	H	H
XII-40-5	p-I—Ph	H	H	CH ₂ Ph	"Bu	N ₃	F	F	OH	H	H
XII-40-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	"Bu	N ₃	F	F	OH	H	H
XII-40-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	N ₃	F	F	OH	H	H
XII-40-8	p-I—Ph	*	H	*	"Bu	N ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

40

TABLE XII-41

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XII-41-1	CH ₃	H	H	H	Bz	N ₃	F	F	OH	H	H
XII-41-2	CH ₃	H	H	CH ₃	Bz	N ₃	F	F	OH	H	H
XII-41-3	CH ₃	H	H	CH(CH ₃) ₂	Bz	N ₃	F	F	OH	H	H
XII-41-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	Bz	N ₃	F	F	OH	H	H
XII-41-5	CH ₃	H	H	CH ₂ Ph	Bz	N ₃	F	F	OH	H	H
XII-41-6	CH ₃	H	H	CH ₂ -indol-3-yl	Bz	N ₃	F	F	OH	H	H
XII-41-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	Bz	N ₃	F	F	OH	H	H
XII-41-8	CH ₃	*	H	*	Bz	N ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XII-42

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XII-42-1	Et	H	H	H	Bz	N ₃	F	F	OH	H	H
XII-42-2	Et	H	H	CH ₃	Bz	N ₃	F	F	OH	H	H
XII-42-3	Et	H	H	CH(CH ₃) ₂	Bz	N ₃	F	F	OH	H	H

TABLE XII-42-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XII-42-4	Et	H	H	CH ₂ CH(CH ₃) ₂	Bz	N ₃	F	F	OH	H	H
XII-42-5	Et	H	H	CH ₂ Ph	Bz	N ₃	F	F	OH	H	H
XII-42-6	Et	H	H	CH ₂ -indol-3-yl	Bz	N ₃	F	F	OH	H	H
XII-42-7	Et	H	H	CH ₂ CH ₂ SCH ₃	Bz	N ₃	F	F	OH	H	H
XII-42-8	Et	*	H	*	Bz	N ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XII-43

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XII-43-1	ⁱ Pr	H	H	H	Bz	N ₃	F	F	OH	H	H
XII-43-2	ⁱ Pr	H	H	CH ₃	Bz	N ₃	F	F	OH	H	H
XII-43-3	ⁱ Pr	H	H	CH(CH ₃) ₂	Bz	N ₃	F	F	OH	H	H
XII-43-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	Bz	N ₃	F	F	OH	H	H
XII-43-5	ⁱ Pr	H	H	CH ₂ Ph	Bz	N ₃	F	F	OH	H	H
XII-43-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	Bz	N ₃	F	F	OH	H	H
XII-43-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	Bz	N ₃	F	F	OH	H	H
XII-43-8	ⁱ Pr	*	H	*	Bz	N ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

283

TABLE XII-44

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XII-44-1	t-Bu	H	H	H	Bz	N ₃	F	F	OH	H	H
XII-44-2	t-Bu	H	H	CH ₃	Bz	N ₃	F	F	OH	H	H
XII-44-3	t-Bu	H	H	CH(CH ₃) ₂	Bz	N ₃	F	F	OH	H	H
XII-44-4	t-Bu	H	H	CH ₂ CH(CH ₃) ₂	Bz	N ₃	F	F	OH	H	H
XII-44-5	t-Bu	H	H	CH ₂ Ph	Bz	N ₃	F	F	OH	H	H
XII-44-6	t-Bu	H	H	CH ₂ -indol-3-yl	Bz	N ₃	F	F	OH	H	H
XII-44-7	t-Bu	H	H	CH ₂ CH ₂ SCH ₃	Bz	N ₃	F	F	OH	H	H
XII-44-8	t-Bu	*	H	*	Bz	N ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

284

TABLE XII-45

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XII-45-1	Ph	H	H	H	Bz	N ₃	F	F	OH	H	H
XII-45-2	Ph	H	H	CH ₃	Bz	N ₃	F	F	OH	H	H
XII-45-3	Ph	H	H	CH(CH ₃) ₂	Bz	N ₃	F	F	OH	H	H
XII-45-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	N ₃	F	F	OH	H	H
XII-45-5	Ph	H	H	CH ₂ Ph	Bz	N ₃	F	F	OH	H	H
XII-45-6	Ph	H	H	CH ₂ -indol-3-yl	Bz	N ₃	F	F	OH	H	H
XII-45-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	N ₃	F	F	OH	H	H
XII-45-8	Ph	*	H	*	Bz	N ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring

TABLE XII-46

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XII-46-1	p-Me—Ph	H	H	H	Bz	N ₃	F	F	OH	H	H
XII-46-2	p-Me—Ph	H	H	CH ₃	Bz	N ₃	F	F	OH	H	H
XII-46-3	p-Me—Ph	H	H	CH(CH ₃) ₂	Bz	N ₃	F	F	OH	H	H
XII-46-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	N ₃	F	F	OH	H	H
XII-46-5	p-Me—Ph	H	H	CH ₂ Ph	Bz	N ₃	F	F	OH	H	H
XII-46-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	Bz	N ₃	F	F	OH	H	H
XII-46-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	N ₃	F	F	OH	H	H
XII-46-8	p-Me—Ph	*	H	*	Bz	N ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XII-47

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XII-47-1	p-F—Ph	H	H	H	Bz	N ₃	F	F	OH	H	H
XII-47-2	p-F—Ph	H	H	CH ₃	Bz	N ₃	F	F	OH	H	H
XII-47-3	p-F—Ph	H	H	CH(CH ₃) ₂	Bz	N ₃	F	F	OH	H	H
XII-47-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	N ₃	F	F	OH	H	H
XII-47-5	p-F—Ph	H	H	CH ₂ Ph	Bz	N ₃	F	F	OH	H	H
XII-47-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	Bz	N ₃	F	F	OH	H	H
XII-47-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	N ₃	F	F	OH	H	H
XII-47-8	p-F—Ph	*	H	*	Bz	N ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XII-48

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XII-48-1	p-Cl—Ph	H	H	H	Bz	N ₃	F	F	OH	H	H
XII-48-2	p-Cl—Ph	H	H	CH ₃	Bz	N ₃	F	F	OH	H	H
XII-48-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	Bz	N ₃	F	F	OH	H	H
XII-48-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	N ₃	F	F	OH	H	H
XII-48-5	p-Cl—Ph	H	H	CH ₂ Ph	Bz	N ₃	F	F	OH	H	H
XII-48-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	Bz	N ₃	F	F	OH	H	H
XII-48-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	N ₃	F	F	OH	H	H
XII-48-8	p-Cl—Ph	*	H	*	Bz	N ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XII-49

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XII-49-1	p-Br—Ph	H	H	H	Bz	N ₃	F	F	OH	H	H
XII-49-2	p-Br—Ph	H	H	CH ₃	Bz	N ₃	F	F	OH	H	H
XII-49-3	p-Br—Ph	H	H	CH(CH ₃) ₂	Bz	N ₃	F	F	OH	H	H
XII-49-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	N ₃	F	F	OH	H	H
XII-49-5	p-Br—Ph	H	H	CH ₂ Ph	Bz	N ₃	F	F	OH	H	H
XII-49-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	Bz	N ₃	F	F	OH	H	H
XII-49-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	N ₃	F	F	OH	H	H
XII-49-8	p-Br—Ph	*	H	*	Bz	N ₃	F	F	OH	H	H

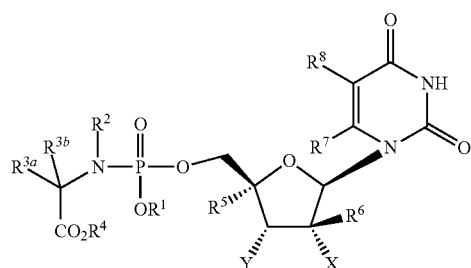
*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XII-50

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XII-50-1	p-I—Ph	H	H	H	Bz	N ₃	F	F	OH	H	H
XII-50-2	p-I—Ph	H	H	CH ₃	Bz	N ₃	F	F	OH	H	H
XII-50-3	p-I—Ph	H	H	CH(CH ₃) ₂	Bz	N ₃	F	F	OH	H	H
XII-50-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	N ₃	F	F	OH	H	H
XII-50-5	p-I—Ph	H	H	CH ₂ Ph	Bz	N ₃	F	F	OH	H	H
XII-50-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	Bz	N ₃	F	F	OH	H	H
XII-50-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	N ₃	F	F	OH	H	H
XII-50-8	p-I—Ph	*	H	*	Bz	N ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

XIII 15



20

25

TABLE XIII-1

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIII-1-1	CH ₃	H	H	H	CH ₃	N ₃	H	F	OH	H	H
XIII-1-2	CH ₃	H	H	CH ₃	CH ₃	N ₃	H	F	OH	H	H
XIII-1-3	CH ₃	H	H	CH(CH ₃) ₂	CH ₃	N ₃	H	F	OH	H	H
XIII-1-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	N ₃	H	F	OH	H	H
XIII-1-5	CH ₃	H	H	CH ₂ Ph	CH ₃	N ₃	H	F	OH	H	H
XIII-1-6	CH ₃	H	H	CH ₂ -indol-3-yl	CH ₃	N ₃	H	F	OH	H	H
XIII-1-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	N ₃	H	F	OH	H	H
XIII-1-8	CH ₃	*	H	*	CH ₃	N ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIII-2

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIII-2-1	Et	H	H	H	CH ₃	N ₃	H	F	OH	H	H
XIII-2-2	Et	H	H	CH ₃	CH ₃	N ₃	H	F	OH	H	H
XIII-2-3	Et	H	H	CH(CH ₃) ₂	CH ₃	N ₃	H	F	OH	H	H
XIII-2-4	Et	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	N ₃	H	F	OH	H	H
XIII-2-5	Et	H	H	CH ₂ Ph	CH ₃	N ₃	H	F	OH	H	H
XIII-2-6	Et	H	H	CH ₂ -indol-3-yl	CH ₃	N ₃	H	F	OH	H	H
XIII-2-7	Et	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	N ₃	H	F	OH	H	H
XIII-2-8	Et	*	H	*	CH ₃	N ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIII-3

45

50

55

60

65

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIII-3-1	<i>i</i> Pr	H	H	H	CH ₃	N ₃	H	F	OH	H	H
XIII-3-2	<i>i</i> Pr	H	H	CH ₃	CH ₃	N ₃	H	F	OH	H	H
XIII-3-3	<i>i</i> Pr	H	H	CH(CH ₃) ₂	CH ₃	N ₃	H	F	OH	H	H
XIII-3-4	<i>i</i> Pr	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	N ₃	H	F	OH	H	H
XIII-3-5	<i>i</i> Pr	H	H	CH ₂ Ph	CH ₃	N ₃	H	F	OH	H	H
XIII-3-6	<i>i</i> Pr	H	H	CH ₂ -indol-3-yl	CH ₃	N ₃	H	F	OH	H	H
XIII-3-7	<i>i</i> Pr	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	N ₃	H	F	OH	H	H
XIII-3-8	<i>i</i> Pr	*	H	*	CH ₃	N ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

287

TABLE XIII-4

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIII-4-1	'Bu	H	H	H	CH ₃	N ₃	H	F	OH	H	H
XIII-4-2	'Bu	H	H	CH ₃	CH ₃	N ₃	H	F	OH	H	H
XIII-4-3	'Bu	H	H	CH(CH ₃) ₂	CH ₃	N ₃	H	F	OH	H	H
XIII-4-4	'Bu	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	N ₃	H	F	OH	H	H
XIII-4-5	'Bu	H	H	CH ₂ Ph	CH ₃	N ₃	H	F	OH	H	H
XIII-4-6	'Bu	H	H	CH ₂ -indol-3-yl	CH ₃	N ₃	H	F	OH	H	H
XIII-4-7	'Bu	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	N ₃	H	F	OH	H	H
XIII-4-8	'Bu	*	H	*	CH ₃	N ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

288

TABLE XIII-5

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIII-5-1	Ph	H	H	H	CH ₃	N ₃	H	F	OH	H	H
XIII-5-2	Ph	H	H	CH ₃	CH ₃	N ₃	H	F	OH	H	H
XIII-5-3	Ph	H	H	CH(CH ₃) ₂	CH ₃	N ₃	H	F	OH	H	H
XIII-5-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	N ₃	H	F	OH	H	H
XIII-5-5	Ph	H	H	CH ₂ Ph	CH ₃	N ₃	H	F	OH	H	H
XIII-5-6	Ph	H	H	CH ₂ -indol-3-yl	CH ₃	N ₃	H	F	OH	H	H
XIII-5-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	N ₃	H	F	OH	H	H
XIII-5-8	Ph	*	H	*	CH ₃	N ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIII-6

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIII-6-1	p-Me—Ph	H	H	H	CH ₃	N ₃	H	F	OH	H	H
XIII-6-2	p-Me—Ph	H	H	CH ₃	CH ₃	N ₃	H	F	OH	H	H
XIII-6-3	p-Me—Ph	H	H	CH(CH ₃) ₂	CH ₃	N ₃	H	F	OH	H	H
XIII-6-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	N ₃	H	F	OH	H	H
XIII-6-5	p-Me—Ph	H	H	CH ₂ Ph	CH ₃	N ₃	H	F	OH	H	H
XIII-6-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	N ₃	H	F	OH	H	H
XIII-6-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	N ₃	H	F	OH	H	H
XIII-6-8	p-Me—Ph	*	H	*	CH ₃	N ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIII-7

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIII-7-1	p-F—Ph	H	H	H	CH ₃	N ₃	H	F	OH	H	H
XIII-7-2	p-F—Ph	H	H	CH ₃	CH ₃	N ₃	H	F	OH	H	H
XIII-7-3	p-F—Ph	H	H	CH(CH ₃) ₂	CH ₃	N ₃	H	F	OH	H	H
XIII-7-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	N ₃	H	F	OH	H	H
XIII-7-6	p-F—Ph	H	H	CH ₂ Ph	CH ₃	N ₃	H	F	OH	H	H
XIII-7-7	p-F—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	N ₃	H	F	OH	H	H
XIII-7-8	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	N ₃	H	F	OH	H	H
XIII-7-20	p-F—Ph	*	H	*	CH ₃	N ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIII-8

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIII-8-1	p-Cl—Ph	H	H	H	CH ₃	N ₃	H	F	OH	H	H
XIII-8-2	p-Cl—Ph	H	H	CH ₃	CH ₃	N ₃	H	F	OH	H	H
XIII-8-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	CH ₃	N ₃	H	F	OH	H	H
XIII-8-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	N ₃	H	F	OH	H	H
XIII-8-5	p-Cl—Ph	H	H	CH ₂ Ph	CH ₃	N ₃	H	F	OH	H	H
XIII-8-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	N ₃	H	F	OH	H	H
XIII-8-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	N ₃	H	F	OH	H	H
XIII-8-8	p-Cl—Ph	*	H	*	CH ₃	N ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIII-9

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIII-9-1	p-Br-Ph	H	H	H	CH ₃	N ₃	H	F	OH	H	H
XIII-9-2	p-Br-Ph	H	H	CH ₃	CH ₃	N ₃	H	F	OH	H	H
XIII-9-3	p-Br-Ph	H	H	CH(CH ₃) ₂	CH ₃	N ₃	H	F	OH	H	H
XIII-9-4	p-Br-Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	N ₃	H	F	OH	H	H
XIII-9-6	p-Br-Ph	H	H	CH ₂ Ph	CH ₃	N ₃	H	F	OH	H	H
XIII-9-7	p-Br-Ph	H	H	CH ₂ -indol-3-yl	CH ₃	N ₃	H	F	OH	H	H
XIII-9-8	p-Br-Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	N ₃	H	F	OH	H	H
XIII-9-20	p-Br-Ph	*	H	*	CH ₃	N ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIII-10

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIII-10-1	p-I-Ph	H	H	H	CH ₃	N ₃	H	F	OH	H	H
XIII-10-2	p-I-Ph	H	H	CH ₃	CH ₃	N ₃	H	F	OH	H	H
XIII-10-3	p-I-Ph	H	H	CH(CH ₃) ₂	CH ₃	N ₃	H	F	OH	H	H
XIII-10-4	p-I-Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	N ₃	H	F	OH	H	H
XIII-10-5	p-I-Ph	H	H	CH ₂ Ph	CH ₃	N ₃	H	F	OH	H	H
XIII-10-6	p-I-Ph	H	H	CH ₂ -indol-3-yl	CH ₃	N ₃	H	F	OH	H	H
XIII-10-7	p-I-Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	N ₃	H	F	OH	H	H
XIII-10-8	p-I-Ph	*	H	*	CH ₃	N ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIII-11

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIII-11-1	CH ₃	H	H	H	Et	N ₃	H	F	OH	H	H
XIII-11-2	CH ₃	H	H	CH ₃	Et	N ₃	H	F	OH	H	H
XIII-11-3	CH ₃	H	H	CH(CH ₃) ₂	Et	N ₃	H	F	OH	H	H
XIII-11-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	Et	N ₃	H	F	OH	H	H
XIII-11-5	CH ₃	H	H	CH ₂ Ph	Et	N ₃	H	F	OH	H	H
XIII-11-6	CH ₃	H	H	CH ₂ -indol-3-yl	Et	N ₃	H	F	OH	H	H
XIII-11-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	Et	N ₃	H	F	OH	H	H
XIII-11-8	CH ₃	*	H	*	Et	N ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

40

TABLE XIII-12

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIII-12-1	Et	H	H	H	Et	N ₃	H	F	OH	H	H
XIII-12-2	Et	H	H	CH ₃	Et	N ₃	H	F	OH	H	H
XIII-12-3	Et	H	H	CH(CH ₃) ₂	Et	N ₃	H	F	OH	H	H
XIII-12-4	Et	H	H	CH ₂ CH(CH ₃) ₂	Et	N ₃	H	F	OH	H	H
XIII-12-5	Et	H	H	CH ₂ Ph	Et	N ₃	H	F	OH	H	H
XIII-12-6	Et	H	H	CH ₂ -indol-3-yl	Et	N ₃	H	F	OH	H	H
XIII-12-7	Et	H	H	CH ₂ CH ₂ SCH ₃	Et	N ₃	H	F	OH	H	H
XIII-12-8	Et	*	H	*	Et	N ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIII-13-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
45 XIII-13-2	ⁱ Pr	H	H	CH ₃	Et	N ₃	H	F	OH	H	H
XIII-13-3	ⁱ Pr	H	H	CH(CH ₃) ₂	Et	N ₃	H	F	OH	H	H
XIII-13-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	Et	N ₃	H	F	OH	H	H
50 XIII-13-5	ⁱ Pr	H	H	CH ₂ Ph	Et	N ₃	H	F	OH	H	H
XIII-13-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	Et	N ₃	H	F	OH	H	H
55 XIII-13-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	Et	N ₃	H	F	OH	H	H
XIII-13-8	ⁱ Pr	*	H	*	Et	N ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

60

TABLE XIII-13

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIII-13-1	ⁱ Pr	H	H	H	Et	N ₃	H	F	OH	H	H

TABLE XIII-14

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
65 XIII-14-1	^t Bu	H	H	H	Et	N ₃	H	F	OH	H	H

291

TABLE XIII-14-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIII-14-2	^t Bu	H	H	CH ₃	Et	N ₃	H	F	OH	H	H
XIII-14-3	^t Bu	H	H	CH(CH ₃) ₂	Et	N ₃	H	F	OH	H	H
XIII-14-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	Et	N ₃	H	F	OH	H	H
XIII-14-5	^t Bu	H	H	CH ₂ Ph	Et	N ₃	H	F	OH	H	H
XIII-14-6	^t Bu	H	H	CH ₂ -indol-3-yl	Et	N ₃	H	F	OH	H	H
XIII-14-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	Et	N ₃	H	F	OH	H	H
XIII-14-8	^t Bu	*	H	*	Et	N ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

292

TABLE XIII-15

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIII-15-1	Ph	H	H	H	Et	N ₃	H	F	OH	H	H
XIII-15-2	Ph	H	H	CH ₃	Et	N ₃	H	F	OH	H	H
XIII-15-3	Ph	H	H	CH(CH ₃) ₂	Et	N ₃	H	F	OH	H	H
XIII-15-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	N ₃	H	F	OH	H	H
XIII-15-5	Ph	H	H	CH ₂ Ph	Et	N ₃	H	F	OH	H	H
XIII-15-6	Ph	H	H	CH ₂ -indol-3-yl	Et	N ₃	H	F	OH	H	H
XIII-15-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	N ₃	H	F	OH	H	H
XIII-15-8	Ph	*	H	*	Et	N ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIII-16

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIII-16-1	p-Me—Ph	H	H	H	Et	N ₃	H	F	OH	H	H
XIII-16-2	p-Me—Ph	H	H	CH ₃	Et	N ₃	H	F	OH	H	H
XIII-16-3	p-Me—Ph	H	H	CH(CH ₃) ₂	Et	N ₃	H	F	OH	H	H
XIII-16-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	N ₃	H	F	OH	H	H
XIII-16-5	p-Me—Ph	H	H	CH ₂ Ph	Et	N ₃	H	F	OH	H	H
XIII-16-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	Et	N ₃	H	F	OH	H	H
XIII-16-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	N ₃	H	F	OH	H	H
XIII-16-8	p-Me—Ph	*	H	*	Et	N ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIII-17

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIII-17-1	p-F—Ph	H	H	H	Et	N ₃	H	F	OH	H	H
XIII-17-2	p-F—Ph	H	H	CH ₃	Et	N ₃	H	F	OH	H	H
XIII-17-3	p-F—Ph	H	H	CH(CH ₃) ₂	Et	N ₃	H	F	OH	H	H
XIII-17-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	N ₃	H	F	OH	H	H
XIII-17-5	p-F—Ph	H	H	CH ₂ Ph	Et	N ₃	H	F	OH	H	H
XIII-17-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	Et	N ₃	H	F	OH	H	H
XIII-17-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	N ₃	H	F	OH	H	H
XIII-17-8	p-F—Ph	*	H	*	Et	N ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIII-18

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIII-18-1	p-Cl—Ph	H	H	H	Et	N ₃	H	F	OH	H	H
XIII-18-2	p-Cl—Ph	H	H	CH ₃	Et	N ₃	H	F	OH	H	H
XIII-18-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	Et	N ₃	H	F	OH	H	H
XIII-18-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	N ₃	H	F	OH	H	H
XIII-18-5	p-Cl—Ph	H	H	CH ₂ Ph	Et	N ₃	H	F	OH	H	H
XIII-18-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	Et	N ₃	H	F	OH	H	H
XIII-18-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	N ₃	H	F	OH	H	H
XIII-18-8	p-Cl—Ph	*	H	*	Et	N ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIII-19

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIII-19-1	p-Br-Ph	H	H	H	Et	N ₃	H	F	OH	H	H
XIII-19-2	p-Br-Ph	H	H	CH ₃	Et	N ₃	H	F	OH	H	H
XIII-19-3	p-Br-Ph	H	H	CH(CH ₃) ₂	Et	N ₃	H	F	OH	H	H
XIII-19-4	p-Br-Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	N ₃	H	F	OH	H	H
XIII-19-5	p-Br-Ph	H	H	CH ₂ Ph	Et	N ₃	H	F	OH	H	H
XIII-19-6	p-Br-Ph	H	H	CH ₂ -indol-3-yl	Et	N ₃	H	F	OH	H	H
XIII-19-7	p-Br-Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	N ₃	H	F	OH	H	H
XIII-19-8	p-Br-Ph	*	H	*	Et	N ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIII-20

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIII-20-1	p-I-Ph	H	H	H	Et	N ₃	H	F	OH	H	H
XIII-20-2	p-I-Ph	H	H	CH ₃	Et	N ₃	H	F	OH	H	H
XIII-20-3	p-I-Ph	H	H	CH(CH ₃) ₂	Et	N ₃	H	F	OH	H	H
XIII-20-4	p-I-Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	N ₃	H	F	OH	H	H
XIII-20-5	p-I-Ph	H	H	CH ₂ Ph	Et	N ₃	H	F	OH	H	H
XIII-20-6	p-I-Ph	H	H	CH ₂ -indol-3-yl	Et	N ₃	H	F	OH	H	H
XIII-20-7	p-I-Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	N ₃	H	F	OH	H	H
XIII-20-8	p-I-Ph	*	H	*	Et	N ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIII-21

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIII-21-1	CH ₃	H	H	H	ⁱ Pr	N ₃	H	F	OH	H	H
XIII-21-2	CH ₃	H	H	CH ₃	ⁱ Pr	N ₃	H	F	OH	H	H
XIII-21-3	CH ₃	H	H	CH(CH ₃) ₂	ⁱ Pr	N ₃	H	F	OH	H	H
XIII-21-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	N ₃	H	F	OH	H	H
XIII-21-5	CH ₃	H	H	CH ₂ Ph	ⁱ Pr	N ₃	H	F	OH	H	H
XIII-21-6	CH ₃	H	H	CH ₂ -indol-3-yl	ⁱ Pr	N ₃	H	F	OH	H	H
XIII-21-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	N ₃	H	F	OH	H	H
XIII-21-8	CH ₃	*	H	*	ⁱ Pr	N ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIII-23

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIII-23-1	ⁱ Pr	H	H	H	ⁱ Pr	N ₃	H	F	OH	H	H
XIII-23-2	ⁱ Pr	H	H	CH ₃	ⁱ Pr	N ₃	H	F	OH	H	H
XIII-23-3	ⁱ Pr	H	H	CH(CH ₃) ₂	ⁱ Pr	N ₃	H	F	OH	H	H
XIII-23-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	N ₃	H	F	OH	H	H
XIII-23-5	ⁱ Pr	H	H	CH ₂ Ph	ⁱ Pr	N ₃	H	F	OH	H	H
XIII-23-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	ⁱ Pr	N ₃	H	F	OH	H	H
XIII-23-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	N ₃	H	F	OH	H	H
XIII-23-8	ⁱ Pr	*	H	*	ⁱ Pr	N ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIII-22

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIII-22-1	Et	H	H	H	ⁱ Pr	N ₃	H	F	OH	H	H
XIII-22-2	Et	H	H	CH ₃	ⁱ Pr	N ₃	H	F	OH	H	H
XIII-22-3	Et	H	H	CH(CH ₃) ₂	ⁱ Pr	N ₃	H	F	OH	H	H
XIII-22-4	Et	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	N ₃	H	F	OH	H	H
XIII-22-5	Et	H	H	CH ₂ Ph	ⁱ Pr	N ₃	H	F	OH	H	H
XIII-22-6	Et	H	H	CH ₂ -indol-3-yl	ⁱ Pr	N ₃	H	F	OH	H	H
XIII-22-7	Et	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	N ₃	H	F	OH	H	H
XIII-22-8	Et	*	H	*	ⁱ Pr	N ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIII-24

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIII-24-1	^t Bu	H	H	H	ⁱ Pr	N ₃	H	F	OH	H	H
XIII-24-2	^t Bu	H	H	CH ₃	ⁱ Pr	N ₃	H	F	OH	H	H
XIII-24-3	^t Bu	H	H	CH(CH ₃) ₂	ⁱ Pr	N ₃	H	F	OH	H	H
XIII-24-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	N ₃	H	F	OH	H	H
XIII-24-5	^t Bu	H	H	CH ₂ Ph	ⁱ Pr	N ₃	H	F	OH	H	H
XIII-24-6	^t Bu	H	H	CH ₂ -indol-3-yl	ⁱ Pr	N ₃	H	F	OH	H	H
XIII-24-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	N ₃	H	F	OH	H	H
XIII-24-8	^t Bu	*	H	*	ⁱ Pr	N ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

295

TABLE XIII-25

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIII-25-1	Ph	H	H	H	^t Pr	N ₃	H	F	OH	H	H
XIII-25-2	Ph	H	H	CH ₃	^t Pr	N ₃	H	F	OH	H	H
XIII-25-3	Ph	H	H	CH(CH ₃) ₂	^t Pr	N ₃	H	F	OH	H	H
XIII-25-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	^t Pr	N ₃	H	F	OH	H	H
XIII-25-5	Ph	H	H	CH ₂ Ph	^t Pr	N ₃	H	F	OH	H	H

296

TABLE XIII-25-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
25-5											
5 XIII-25-6	Ph	H	H	CH ₂ -indol-3-yl	^t Pr	N ₃	H	F	OH	H	H
XIII-25-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	^t Pr	N ₃	H	F	OH	H	H
XIII-25-8	Ph	*	H	*	^t Pr	N ₃	H	F	OH	H	H

10 *R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIII-26

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIII-26-1	p-Me—Ph	H	H	H	^t Pr	N ₃	H	F	OH	H	H
XIII-26-2	p-Me—Ph	H	H	CH ₃	^t Pr	N ₃	H	F	OH	H	H
XIII-26-3	p-Me—Ph	H	H	CH(CH ₃) ₂	^t Pr	N ₃	H	F	OH	H	H
XIII-26-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	^t Pr	N ₃	H	F	OH	H	H
XIII-26-5	p-Me—Ph	H	H	CH ₂ Ph	^t Pr	N ₃	H	F	OH	H	H
XIII-26-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	^t Pr	N ₃	H	F	OH	H	H
XIII-26-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	^t Pr	N ₃	H	F	OH	H	H
XIII-26-8	p-Me—Ph	*	H	*	^t Pr	N ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIII-27

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIII-27-1	p-F—Ph	H	H	H	^t Pr	N ₃	H	F	OH	H	H
XIII-27-2	p-F—Ph	H	H	CH ₃	^t Pr	N ₃	H	F	OH	H	H
XIII-27-3	p-F—Ph	H	H	CH(CH ₃) ₂	^t Pr	N ₃	H	F	OH	H	H
XIII-27-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	^t Pr	N ₃	H	F	OH	H	H
XIII-27-5	p-F—Ph	H	H	CH ₂ Ph	^t Pr	N ₃	H	F	OH	H	H
XIII-27-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	^t Pr	N ₃	H	F	OH	H	H
XIII-27-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	^t Pr	N ₃	H	F	OH	H	H
XIII-27-8	p-F—Ph	*	H	*	^t Pr	N ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIII-28

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIII-28-1	p-Cl—Ph	H	H	H	^t Pr	N ₃	H	F	OH	H	H
XIII-28-2	p-Cl—Ph	H	H	CH ₃	^t Pr	N ₃	H	F	OH	H	H
XIII-28-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	^t Pr	N ₃	H	F	OH	H	H
XIII-28-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	^t Pr	N ₃	H	F	OH	H	H
XIII-28-5	p-Cl—Ph	H	H	CH ₂ Ph	^t Pr	N ₃	H	F	OH	H	H
XIII-28-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	^t Pr	N ₃	H	F	OH	H	H
XIII-28-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	^t Pr	N ₃	H	F	OH	H	H
XIII-28-8	p-Cl—Ph	*	H	*	^t Pr	N ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIII-29

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIII-29-1	p-Br—Ph	H	H	H	^t Pr	N ₃	H	F	OH	H	H
XIII-29-2	p-Br—Ph	H	H	CH ₃	^t Pr	N ₃	H	F	OH	H	H
XIII-29-3	p-Br—Ph	H	H	CH(CH ₃) ₂	^t Pr	N ₃	H	F	OH	H	H
XIII-29-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	^t Pr	N ₃	H	F	OH	H	H
XIII-29-5	p-Br—Ph	H	H	CH ₂ Ph	^t Pr	N ₃	H	F	OH	H	H
XIII-29-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	^t Pr	N ₃	H	F	OH	H	H
XIII-29-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	^t Pr	N ₃	H	F	OH	H	H
XIII-29-8	p-Br—Ph	*	H	*	^t Pr	N ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIII-30

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIII-30-1	p-I—Ph	H	H	H	ⁱ Pr	N ₃	H	F	OH	H	H
XIII-30-2	p-I—Ph	H	H	CH ₃	ⁱ Pr	N ₃	H	F	OH	H	H
XIII-30-3	p-I—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	N ₃	H	F	OH	H	H
XIII-30-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	N ₃	H	F	OH	H	H
XIII-30-5	p-I—Ph	H	H	CH ₂ Ph	ⁱ Pr	N ₃	H	F	OH	H	H
XIII-30-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	N ₃	H	F	OH	H	H
XIII-30-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	N ₃	H	F	OH	H	H
XIII-30-8	p-I—Ph	*	H	*	ⁱ Pr	N ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIII-31

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIII-31-1	CH ₃	H	H	H	ⁿ Bu	N ₃	H	F	OH	H	H
XIII-31-2	CH ₃	H	H	CH ₃	ⁿ Bu	N ₃	H	F	OH	H	H
XIII-31-3	CH ₃	H	H	CH(CH ₃) ₂	ⁿ Bu	N ₃	H	F	OH	H	H
XIII-31-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	N ₃	H	F	OH	H	H
XIII-31-5	CH ₃	H	H	CH ₂ Ph	ⁿ Bu	N ₃	H	F	OH	H	H
XIII-31-6	CH ₃	H	H	CH ₂ -indol-3-yl	ⁿ Bu	N ₃	H	F	OH	H	H
XIII-31-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	N ₃	H	F	OH	H	H
XIII-31-8	CH ₃	*	H	*	ⁿ Bu	N ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIII-32

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIII-32-1	Et	H	H	H	ⁿ Bu	N ₃	H	F	OH	H	H
XIII-32-2	Et	H	H	CH ₃	ⁿ Bu	N ₃	H	F	OH	H	H
XIII-32-3	Et	H	H	CH(CH ₃) ₂	ⁿ Bu	N ₃	H	F	OH	H	H
XIII-32-4	Et	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	N ₃	H	F	OH	H	H
XIII-32-5	Et	H	H	CH ₂ Ph	ⁿ Bu	N ₃	H	F	OH	H	H
XIII-32-6	Et	H	H	CH ₂ -indol-3-yl	ⁿ Bu	N ₃	H	F	OH	H	H
XIII-32-7	Et	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	N ₃	H	F	OH	H	H
XIII-32-8	Et	*	H	*	ⁿ Bu	N ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIII-33

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIII-33-1	ⁱ Pr	H	H	H	ⁿ Bu	N ₃	H	F	OH	H	H
XIII-33-2	ⁱ Pr	H	H	CH ₃	ⁿ Bu	N ₃	H	F	OH	H	H
XIII-33-3	ⁱ Pr	H	H	CH(CH ₃) ₂	ⁿ Bu	N ₃	H	F	OH	H	H
XIII-33-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	N ₃	H	F	OH	H	H
XIII-33-5	ⁱ Pr	H	H	CH ₂ Ph	ⁿ Bu	N ₃	H	F	OH	H	H
XIII-33-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	ⁿ Bu	N ₃	H	F	OH	H	H

TABLE XIII-33-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIII-33-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	N ₃	H	F	OH	H	H
XIII-33-8	ⁱ Pr	*	H	*	ⁿ Bu	N ₃	H	F	OH	H	H

25 *R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIII-34

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIII-34-1	ⁿ Bu	H	H	H	ⁿ Bu	N ₃	H	F	OH	H	H
XIII-34-2	ⁿ Bu	H	H	CH ₃	ⁿ Bu	N ₃	H	F	OH	H	H
XIII-34-3	ⁿ Bu	H	H	CH(CH ₃) ₂	ⁿ Bu	N ₃	H	F	OH	H	H
XIII-34-4	ⁿ Bu	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	N ₃	H	F	OH	H	H
XIII-34-5	ⁿ Bu	H	H	CH ₂ Ph	ⁿ Bu	N ₃	H	F	OH	H	H
XIII-34-6	ⁿ Bu	H	H	CH ₂ -indol-3-yl	ⁿ Bu	N ₃	H	F	OH	H	H
XIII-34-7	ⁿ Bu	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	N ₃	H	F	OH	H	H
XIII-34-8	ⁿ Bu	*	H	*	ⁿ Bu	N ₃	H	F	OH	H	H

45 *R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIII-35

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIII-35-1	Ph	H	H	H	ⁿ Bu	N ₃	H	F	OH	H	H
XIII-35-2	Ph	H	H	CH ₃	ⁿ Bu	N ₃	H	F	OH	H	H
XIII-35-3	Ph	H	H	CH(CH ₃) ₂	ⁿ Bu	N ₃	H	F	OH	H	H
XIII-35-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	N ₃	H	F	OH	H	H
XIII-35-5	Ph	H	H	CH ₂ Ph	ⁿ Bu	N ₃	H	F	OH	H	H
XIII-35-6	Ph	H	H	CH ₂ -indol-3-yl	ⁿ Bu	N ₃	H	F	OH	H	H
XIII-35-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	N ₃	H	F	OH	H	H
XIII-35-8	Ph	*	H	*	ⁿ Bu	N ₃	H	F	OH	H	H

65 *R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

299

TABLE XIII-36

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIII-36-1	p-Me—Ph	H	H	H	"Bu	N ₃	H	F	OH	H	H
XIII-36-2	p-Me—Ph	H	H	CH ₃	"Bu	N ₃	H	F	OH	H	H
XIII-36-3	p-Me—Ph	H	H	CH(CH ₃) ₂	"Bu	N ₃	H	F	OH	H	H
XIII-36-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	N ₃	H	F	OH	H	H
XIII-36-5	p-Me—Ph	H	H	CH ₂ Ph	"Bu	N ₃	H	F	OH	H	H
XIII-36-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	"Bu	N ₃	H	F	OH	H	H
XIII-36-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	N ₃	H	F	OH	H	H
XIII-36-8	p-Me—Ph	*	H	*	"Bu	N ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIII-37

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIII-37-1	p-F—Ph	H	H	H	"Bu	N ₃	H	F	OH	H	H
XIII-37-2	p-F—Ph	H	H	CH ₃	"Bu	N ₃	H	F	OH	H	H
XIII-37-3	p-F—Ph	H	H	CH(CH ₃) ₂	"Bu	N ₃	H	F	OH	H	H
XIII-37-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	N ₃	H	F	OH	H	H
XIII-37-5	p-F—Ph	H	H	CH ₂ Ph	"Bu	N ₃	H	F	OH	H	H
XIII-37-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	"Bu	N ₃	H	F	OH	H	H
XIII-37-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	N ₃	H	F	OH	H	H
XIII-37-8	p-F—Ph	*	H	*	"Bu	N ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIII-38

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIII-38-1	p-Cl—Ph	H	H	H	"Bu	N ₃	H	F	OH	H	H
XIII-38-2	p-Cl—Ph	H	H	CH ₃	"Bu	N ₃	H	F	OH	H	H
XIII-38-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	"Bu	N ₃	H	F	OH	H	H
XIII-38-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	N ₃	H	F	OH	H	H
XIII-38-5	p-Cl—Ph	H	H	CH ₂ Ph	"Bu	N ₃	H	F	OH	H	H
XIII-38-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	"Bu	N ₃	H	F	OH	H	H
XIII-38-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	N ₃	H	F	OH	H	H
XIII-38-8	p-Cl—Ph	*	H	*	"Bu	N ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIII-39

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIII-39-1	p-Br—Ph	H	H	H	"Bu	N ₃	H	F	OH	H	H
XIII-39-2	p-Br—Ph	H	H	CH ₃	"Bu	N ₃	H	F	OH	H	H
XIII-39-3	p-Br—Ph	H	H	CH(CH ₃) ₂	"Bu	N ₃	H	F	OH	H	H
XIII-39-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	N ₃	H	F	OH	H	H
XIII-39-5	p-Br—Ph	H	H	CH ₂ Ph	"Bu	N ₃	H	F	OH	H	H
XIII-39-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	"Bu	N ₃	H	F	OH	H	H
XIII-39-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	N ₃	H	F	OH	H	H
XIII-39-8	p-Br—Ph	*	H	*	"Bu	N ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIII-40

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIII-40-1	p-I—Ph	H	H	H	"Bu	N ₃	H	F	OH	H	H
XIII-40-2	p-I—Ph	H	H	CH ₃	"Bu	N ₃	H	F	OH	H	H
XIII-40-3	p-I—Ph	H	H	CH(CH ₃) ₂	"Bu	N ₃	H	F	OH	H	H
XIII-40-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	N ₃	H	F	OH	H	H
XIII-40-5	p-I—Ph	H	H	CH ₂ Ph	"Bu	N ₃	H	F	OH	H	H

TABLE XIII-40-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIII-40-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	ⁿ Bu	N ₃	H	F	OH	H	H
XIII-40-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	N ₃	H	F	OH	H	H
XIII-40-8	p-I—Ph	*	H	*	ⁿ Bu	N ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIII-41

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIII-41-1	CH ₃	H	H	H	Bz	N ₃	H	F	OH	H	H
XIII-41-2	CH ₃	H	H	CH ₃	Bz	N ₃	H	F	OH	H	H
XIII-41-3	CH ₃	H	H	CH(CH ₃) ₂	Bz	N ₃	H	F	OH	H	H
XIII-41-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	Bz	N ₃	H	F	OH	H	H
XIII-41-5	CH ₃	H	H	CH ₂ Ph	Bz	N ₃	H	F	OH	H	H
XIII-41-6	CH ₃	H	H	CH ₂ -indol-3-yl	Bz	N ₃	H	F	OH	H	H
XIII-41-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	Bz	N ₃	H	F	OH	H	H
XIII-41-8	CH ₃	*	H	*	Bz	N ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIII-42

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIII-42-1	Et	H	H	H	Bz	N ₃	H	F	OH	H	H
XIII-42-2	Et	H	H	CH ₃	Bz	N ₃	H	F	OH	H	H
XIII-42-3	Et	H	H	CH(CH ₃) ₂	Bz	N ₃	H	F	OH	H	H
XIII-42-4	Et	H	H	CH ₂ CH(CH ₃) ₂	Bz	N ₃	H	F	OH	H	H
XIII-42-5	Et	H	H	CH ₂ Ph	Bz	N ₃	H	F	OH	H	H
XIII-42-6	Et	H	H	CH ₂ -indol-3-yl	Bz	N ₃	H	F	OH	H	H
XIII-42-7	Et	H	H	CH ₂ CH ₂ SCH ₃	Bz	N ₃	H	F	OH	H	H
XIII-42-8	Et	*	H	*	Bz	N ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIII-43

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIII-43-1	ⁱ Pr	H	H	H	Bz	N ₃	H	F	OH	H	H
XIII-43-2	ⁱ Pr	H	H	CH ₃	Bz	N ₃	H	F	OH	H	H

TABLE XIII-43-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIII-43-3	ⁱ Pr	H	H	CH(CH ₃) ₂	Bz	N ₃	H	F	OH	H	H
XIII-43-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	Bz	N ₃	H	F	OH	H	H
XIII-43-5	ⁱ Pr	H	H	CH ₂ Ph	Bz	N ₃	H	F	OH	H	H
XIII-43-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	Bz	N ₃	H	F	OH	H	H
XIII-43-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	Bz	N ₃	H	F	OH	H	H
XIII-43-8	ⁱ Pr	*	H	*	Bz	N ₃	H	F	OH	H	H

20 *R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIII-44

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIII-44-1	^t Bu	H	H	H	Bz	N ₃	H	F	OH	H	H
XIII-44-2	^t Bu	H	H	CH ₃	Bz	N ₃	H	F	OH	H	H
XIII-44-3	^t Bu	H	H	CH(CH ₃) ₂	Bz	N ₃	H	F	OH	H	H
XIII-44-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	Bz	N ₃	H	F	OH	H	H
XIII-44-5	^t Bu	H	H	CH ₂ Ph	Bz	N ₃	H	F	OH	H	H
XIII-44-6	^t Bu	H	H	CH ₂ -indol-3-yl	Bz	N ₃	H	F	OH	H	H
XIII-44-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	Bz	N ₃	H	F	OH	H	H
XIII-44-8	^t Bu	*	H	*	Bz	N ₃	H	F	OH	H	H

30 *R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIII-45

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIII-45-1	Ph	H	H	H	Bz	N ₃	H	F	OH	H	H
XIII-45-2	Ph	H	H	CH ₃	Bz	N ₃	H	F	OH	H	H
XIII-45-3	Ph	H	H	CH(CH ₃) ₂	Bz	N ₃	H	F	OH	H	H
XIII-45-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	N ₃	H	F	OH	H	H
XIII-45-5	Ph	H	H	CH ₂ Ph	Bz	N ₃	H	F	OH	H	H
XIII-45-6	Ph	H	H	CH ₂ -indol-3-yl	Bz	N ₃	H	F	OH	H	H
XIII-45-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	N ₃	H	F	OH	H	H
XIII-45-8	Ph	*	H	*	Bz	N ₃	H	F	OH	H	H

45 *R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIII-46

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIII-46-1	p-Me—Ph	H	H	H	Bz	N ₃	H	F	OH	H	H
XIII-46-2	p-Me—Ph	H	H	CH ₃	Bz	N ₃	H	F	OH	H	H
XIII-46-3	p-Me—Ph	H	H	CH(CH ₃) ₂	Bz	N ₃	H	F	OH	H	H
XIII-46-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	N ₃	H	F	OH	H	H
XIII-46-5	p-Me—Ph	H	H	CH ₂ Ph	Bz	N ₃	H	F	OH	H	H
XIII-46-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	Bz	N ₃	H	F	OH	H	H
XIII-46-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	N ₃	H	F	OH	H	H
XIII-46-8	p-Me—Ph	*	H	*	Bz	N ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIII-47

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIII-47-1	p-F—Ph	H	H	H	Bz	N ₃	H	F	OH	H	H
XIII-47-2	p-F—Ph	H	H	CH ₃	Bz	N ₃	H	F	OH	H	H
XIII-47-3	p-F—Ph	H	H	CH(CH ₃) ₂	Bz	N ₃	H	F	OH	H	H
XIII-47-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	N ₃	H	F	OH	H	H
XIII-47-5	p-F—Ph	H	H	CH ₂ Ph	Bz	N ₃	H	F	OH	H	H
XIII-47-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	Bz	N ₃	H	F	OH	H	H
XIII-47-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	N ₃	H	F	OH	H	H
XIII-47-8	p-F—Ph	*	H	*	Bz	N ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIII-48

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIII-48-1	p-Cl—Ph	H	H	H	Bz	N ₃	H	F	OH	H	H
XIII-48-2	p-Cl—Ph	H	H	CH ₃	Bz	N ₃	H	F	OH	H	H
XIII-48-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	Bz	N ₃	H	F	OH	H	H
XIII-48-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	N ₃	H	F	OH	H	H
XIII-48-5	p-Cl—Ph	H	H	CH ₂ Ph	Bz	N ₃	H	F	OH	H	H
XIII-48-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	Bz	N ₃	H	F	OH	H	H
XIII-48-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	N ₃	H	F	OH	H	H
XIII-48-8	p-Cl—Ph	*	H	*	Bz	N ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIII-49

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIII-49-1	p-Br—Ph	H	H	H	Bz	N ₃	H	F	OH	H	H
XIII-49-2	p-Br—Ph	H	H	CH ₃	Bz	N ₃	H	F	OH	H	H
XIII-49-3	p-Br—Ph	H	H	CH(CH ₃) ₂	Bz	N ₃	H	F	OH	H	H
XIII-49-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	N ₃	H	F	OH	H	H
XIII-49-5	p-Br—Ph	H	H	CH ₂ Ph	Bz	N ₃	H	F	OH	H	H
XIII-49-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	Bz	N ₃	H	F	OH	H	H
XIII-49-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	N ₃	H	F	OH	H	H
XIII-49-8	p-Br—Ph	*	H	*	Bz	N ₃	H	F	OH	H	H

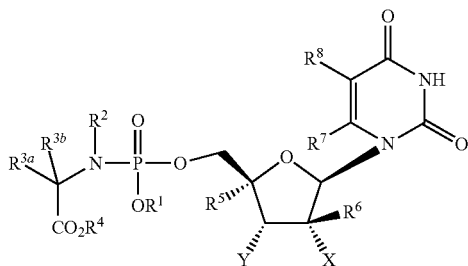
*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIII-50

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIII-50-1	p-I—Ph	H	H	H	Bz	N ₃	H	F	OH	H	H
XIII-50-2	p-I—Ph	H	H	CH ₃	Bz	N ₃	H	F	OH	H	H
XIII-50-3	p-I—Ph	H	H	CH(CH ₃) ₂	Bz	N ₃	H	F	OH	H	H
XIII-50-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	N ₃	H	F	OH	H	H
XIII-50-5	p-I—Ph	H	H	CH ₂ Ph	Bz	N ₃	H	F	OH	H	H
XIII-50-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	Bz	N ₃	H	F	OH	H	H
XIII-50-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	N ₃	H	F	OH	H	H
XIII-50-8	p-I—Ph	*	H	*	Bz	N ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

XIV 55



60

65

TABLE XIV-1

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIV-1-1	CH ₃	H	H	H	CH ₃	N ₃	F	H	OH	H	H
XIV-1-2	CH ₃	H	H	CH ₃	CH ₃	N ₃	F	H	OH	H	H
XIV-1-3	CH ₃	H	H	CH(CH ₃) ₂	CH ₃	N ₃	F	H	OH	H	H
XIV-1-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	N ₃	F	H	OH	H	H
XIV-1-5	CH ₃	H	H	CH ₂ Ph	CH ₃	N ₃	F	H	OH	H	H
XIV-1-6	CH ₃	H	H	CH ₂ -indol-3-yl	CH ₃	N ₃	F	H	OH	H	H
XIV-1-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	N ₃	F	H	OH	H	H
XIV-1-8	CH ₃	*	H	*	CH ₃	N ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIV-2

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIV-2-1	Et	H	H	H	CH ₃	N ₃	F	H	OH	H	H
XIV-2-2	Et	H	H	CH ₃	CH ₃	N ₃	F	H	OH	H	H
XIV-2-3	Et	H	H	CH(CH ₃) ₂	CH ₃	N ₃	F	H	OH	H	H
XIV-2-4	Et	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	N ₃	F	H	OH	H	H
XIV-2-5	Et	H	H	CH ₂ Ph	CH ₃	N ₃	F	H	OH	H	H
XIV-2-6	Et	H	H	CH ₂ -indol-3-yl	CH ₃	N ₃	F	H	OH	H	H
XIV-2-7	Et	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	N ₃	F	H	OH	H	H
XIV-2-8	Et	*	H	*	CH ₃	N ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIV-3

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIV-3-1	ⁱ Pr	H	H	H	CH ₃	N ₃	F	H	OH	H	H
XIV-3-2	ⁱ Pr	H	H	CH ₃	CH ₃	N ₃	F	H	OH	H	H
XIV-3-3	ⁱ Pr	H	H	CH(CH ₃) ₂	CH ₃	N ₃	F	H	OH	H	H
XIV-3-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	N ₃	F	H	OH	H	H
XIV-3-5	ⁱ Pr	H	H	CH ₂ Ph	CH ₃	N ₃	F	H	OH	H	H
XIV-3-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	CH ₃	N ₃	F	H	OH	H	H
XIV-3-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	N ₃	F	H	OH	H	H
XIV-3-8	ⁱ Pr	*	H	*	CH ₃	N ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIV-4

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIV-4-1	^t Bu	H	H	H	CH ₃	N ₃	F	H	OH	H	H
XIV-4-2	^t Bu	H	H	CH ₃	CH ₃	N ₃	F	H	OH	H	H
XIV-4-3	^t Bu	H	H	CH(CH ₃) ₂	CH ₃	N ₃	F	H	OH	H	H
XIV-4-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	N ₃	F	H	OH	H	H
XIV-4-5	^t Bu	H	H	CH ₂ Ph	CH ₃	N ₃	F	H	OH	H	H
XIV-4-6	^t Bu	H	H	CH ₂ -indol-3-yl	CH ₃	N ₃	F	H	OH	H	H
XIV-4-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	N ₃	F	H	OH	H	H
XIV-4-8	^t Bu	*	H	*	CH ₃	N ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIV-5

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIV-5-1	Ph	H	H	H	CH ₃	N ₃	F	H	OH	H	H
XIV-5-2	Ph	H	H	CH ₃	CH ₃	N ₃	F	H	OH	H	H
XIV-5-3	Ph	H	H	CH(CH ₃) ₂	CH ₃	N ₃	F	H	OH	H	H
XIV-5-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	N ₃	F	H	OH	H	H
XIV-5-5	Ph	H	H	CH ₂ Ph	CH ₃	N ₃	F	H	OH	H	H
XIV-5-6	Ph	H	H	CH ₂ -indol-3-yl	CH ₃	N ₃	F	H	OH	H	H
XIV-5-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	N ₃	F	H	OH	H	H
XIV-5-8	Ph	*	H	*	CH ₃	N ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIV-6

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIV-6-1	p-Me—Ph	H	H	H	CH ₃	N ₃	F	H	OH	H	H
XIV-6-2	p-Me—Ph	H	H	CH ₃	CH ₃	N ₃	F	H	OH	H	H
XIV-6-3	p-Me—Ph	H	H	CH(CH ₃) ₂	CH ₃	N ₃	F	H	OH	H	H
XIV-6-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	N ₃	F	H	OH	H	H
XIV-6-5	p-Me—Ph	H	H	CH ₂ Ph	CH ₃	N ₃	F	H	OH	H	H
XIV-6-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	N ₃	F	H	OH	H	H
XIV-6-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	N ₃	F	H	OH	H	H
XIV-6-8	p-Me—Ph	*	H	*	CH ₃	N ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIV-7

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIV-7-1	p-F—Ph	H	H	H	CH ₃	N ₃	F	H	OH	H	H
XIV-7-2	p-F—Ph	H	H	CH ₃	CH ₃	N ₃	F	H	OH	H	H
XIV-7-3	p-F—Ph	H	H	CH(CH ₃) ₂	CH ₃	N ₃	F	H	OH	H	H
XIV-7-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	N ₃	F	H	OH	H	H
XIV-7-6	p-F—Ph	H	H	CH ₂ Ph	CH ₃	N ₃	F	H	OH	H	H
XIV-7-7	p-F—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	N ₃	F	H	OH	H	H
XIV-7-8	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	N ₃	F	H	OH	H	H
XIV-7-20	p-F—Ph	*	H	*	CH ₃	N ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIV-8

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIV-8-1	p-Cl—Ph	H	H	H	CH ₃	N ₃	F	H	OH	H	H
XIV-8-2	p-Cl—Ph	H	H	CH ₃	CH ₃	N ₃	F	H	OH	H	H
XIV-8-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	CH ₃	N ₃	F	H	OH	H	H
XIV-8-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	N ₃	F	H	OH	H	H
XIV-8-5	p-Cl—Ph	H	H	CH ₂ Ph	CH ₃	N ₃	F	H	OH	H	H
XIV-8-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	N ₃	F	H	OH	H	H
XIV-8-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	N ₃	F	H	OH	H	H
XIV-8-8	p-Cl—Ph	*	H	*	CH ₃	N ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIV-9

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIV-9-1	p-Br—Ph	H	H	H	CH ₃	N ₃	F	H	OH	H	H
XIV-9-2	p-Br—Ph	H	H	CH ₃	CH ₃	N ₃	F	H	OH	H	H
XIV-9-3	p-Br—Ph	H	H	CH(CH ₃) ₂	CH ₃	N ₃	F	H	OH	H	H
XIV-9-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	N ₃	F	H	OH	H	H
XIV-9-6	p-Br—Ph	H	H	CH ₂ Ph	CH ₃	N ₃	F	H	OH	H	H
XIV-9-7	p-Br—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	N ₃	F	H	OH	H	H
XIV-9-8	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	N ₃	F	H	OH	H	H
XIV-9-20	p-Br—Ph	*	H	*	CH ₃	N ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIV-10

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIV-10-1	p-I—Ph	H	H	H	CH ₃	N ₃	F	H	OH	H	H
XIV-10-2	p-I—Ph	H	H	CH ₃	CH ₃	N ₃	F	H	OH	H	H
XIV-10-3	p-I—Ph	H	H	CH(CH ₃) ₂	CH ₃	N ₃	F	H	OH	H	H
XIV-10-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	N ₃	F	H	OH	H	H
XIV-10-5	p-I—Ph	H	H	CH ₂ Ph	CH ₃	N ₃	F	H	OH	H	H
XIV-10-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	N ₃	F	H	OH	H	H
XIV-10-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	N ₃	F	H	OH	H	H
XIV-10-8	p-I—Ph	*	H	*	CH ₃	N ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIV-11

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIV-11-1	CH ₃	H	H	H	Et	N ₃	F	H	OH	H	H
XIV-11-2	CH ₃	H	H	CH ₃	Et	N ₃	F	H	OH	H	H
XIV-11-3	CH ₃	H	H	CH(CH ₃) ₂	Et	N ₃	F	H	OH	H	H
XIV-11-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	Et	N ₃	F	H	OH	H	H
XIV-11-5	CH ₃	H	H	CH ₂ Ph	Et	N ₃	F	H	OH	H	H
XIV-11-6	CH ₃	H	H	CH ₂ -indol-3-yl	Et	N ₃	F	H	OH	H	H
XIV-11-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	Et	N ₃	F	H	OH	H	H
XIV-11-8	CH ₃	*	H	*	Et	N ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIV-12

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIV-12-1	Et	H	H	H	Et	N ₃	F	H	OH	H	H
XIV-12-2	Et	H	H	CH ₃	Et	N ₃	F	H	OH	H	H
XIV-12-3	Et	H	H	CH(CH ₃) ₂	Et	N ₃	F	H	OH	H	H
XIV-12-4	Et	H	H	CH ₂ CH(CH ₃) ₂	Et	N ₃	F	H	OH	H	H
XIV-12-5	Et	H	H	CH ₂ Ph	Et	N ₃	F	H	OH	H	H
XIV-12-6	Et	H	H	CH ₂ -indol-3-yl	Et	N ₃	F	H	OH	H	H
XIV-12-7	Et	H	H	CH ₂ CH ₂ SCH ₃	Et	N ₃	F	H	OH	H	H
XIV-12-8	Et	*	H	*	Et	N ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

309

TABLE XIV-13

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIV-13-1	^t Pr	H	H	H	Et	N ₃	F	H	OH	H	H
XIV-13-2	^t Pr	H	H	CH ₃	Et	N ₃	F	H	OH	H	H
XIV-13-3	^t Pr	H	H	CH(CH ₃) ₂	Et	N ₃	F	H	OH	H	H
XIV-13-4	^t Pr	H	H	CH ₂ CH(CH ₃) ₂	Et	N ₃	F	H	OH	H	H
XIV-13-5	^t Pr	H	H	CH ₂ Ph	Et	N ₃	F	H	OH	H	H
XIV-13-6	^t Pr	H	H	CH ₂ -indol-3-yl	Et	N ₃	F	H	OH	H	H
XIV-13-7	^t Pr	H	H	CH ₂ CH ₂ SCH ₃	Et	N ₃	F	H	OH	H	H
XIV-13-8	^t Pr	*	H	*	Et	N ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIV-14

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIV-14-1	^t Bu	H	H	H	Et	N ₃	F	H	OH	H	H
XIV-14-2	^t Bu	H	H	CH ₃	Et	N ₃	F	H	OH	H	H
XIV-14-3	^t Bu	H	H	CH(CH ₃) ₂	Et	N ₃	F	H	OH	H	H
XIV-14-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	Et	N ₃	F	H	OH	H	H

310

TABLE XIV-14-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIV-14-5	^t Bu	H	H	CH ₂ Ph	Et	N ₃	F	H	OH	H	H
XIV-14-6	^t Bu	H	H	CH ₂ -indol-3-yl	Et	N ₃	F	H	OH	H	H
XIV-14-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	Et	N ₃	F	H	OH	H	H
XIV-14-8	^t Bu	*	H	*	Et	N ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIV-15

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIV-15-1	Ph	H	H	H	Et	N ₃	F	H	OH	H	H
XIV-15-2	Ph	H	H	CH ₃	Et	N ₃	F	H	OH	H	H
XIV-15-3	Ph	H	H	CH(CH ₃) ₂	Et	N ₃	F	H	OH	H	H
XIV-15-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	N ₃	F	H	OH	H	H
XIV-15-5	Ph	H	H	CH ₂ Ph	Et	N ₃	F	H	OH	H	H
XIV-15-6	Ph	H	H	CH ₂ -indol-3-yl	Et	N ₃	F	H	OH	H	H
XIV-15-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	N ₃	F	H	OH	H	H
XIV-15-8	Ph	*	H	*	Et	N ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIV-16

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIV-16-1	p-Me—Ph	H	H	H	Et	N ₃	F	H	OH	H	H
XIV-16-2	p-Me—Ph	H	H	CH ₃	Et	N ₃	F	H	OH	H	H
XIV-16-3	p-Me—Ph	H	H	CH(CH ₃) ₂	Et	N ₃	F	H	OH	H	H
XIV-16-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	N ₃	F	H	OH	H	H
XIV-16-5	p-Me—Ph	H	H	CH ₂ Ph	Et	N ₃	F	H	OH	H	H
XIV-16-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	Et	N ₃	F	H	OH	H	H
XIV-16-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	N ₃	F	H	OH	H	H
XIV-16-8	p-Me—Ph	*	H	*	Et	N ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

45

TABLE XIV-17

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIV-17-1	p-F—Ph	H	H	H	Et	N ₃	F	H	OH	H	H
XIV-17-2	p-F—Ph	H	H	CH ₃	Et	N ₃	F	H	OH	H	H
XIV-17-3	p-F—Ph	H	H	CH(CH ₃) ₂	Et	N ₃	F	H	OH	H	H
XIV-17-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	N ₃	F	H	OH	H	H
XIV-17-5	p-F—Ph	H	H	CH ₂ Ph	Et	N ₃	F	H	OH	H	H
XIV-17-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	Et	N ₃	F	H	OH	H	H
XIV-17-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	N ₃	F	H	OH	H	H
XIV-17-8	p-F—Ph	*	H	*	Et	N ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIV-18

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIV-18-1	p-Cl—Ph	H	H	H	Et	N ₃	F	H	OH	H	H
XIV-18-2	p-Cl—Ph	H	H	CH ₃	Et	N ₃	F	H	OH	H	H

TABLE XIV- 18-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIV-18-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	Et	N ₃	F	H	OH	H	H
XIV-18-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	N ₃	F	H	OH	H	H
XIV-18-5	p-Cl—Ph	H	H	CH ₂ Ph	Et	N ₃	F	H	OH	H	H
XIV-18-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	Et	N ₃	F	H	OH	H	H
XIV-18-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	N ₃	F	H	OH	H	H
XIV-18-8	p-Cl—Ph	*	H	*	Et	N ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIV- 19

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIV-19-1	p-Br—Ph	H	H	H	Et	N ₃	F	H	OH	H	H
XIV-19-2	p-Br—Ph	H	H	CH ₃	Et	N ₃	F	H	OH	H	H
XIV-19-3	p-Br—Ph	H	H	CH(CH ₃) ₂	Et	N ₃	F	H	OH	H	H
XIV-19-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	N ₃	F	H	OH	H	H
XIV-19-5	p-Br—Ph	H	H	CH ₂ Ph	Et	N ₃	F	H	OH	H	H
XIV-19-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	Et	N ₃	F	H	OH	H	H
XIV-19-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	N ₃	F	H	OH	H	H
XIV-19-8	p-Br—Ph	*	H	*	Et	N ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIV-20

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIV-20-1	p-I—Ph	H	H	H	Et	N ₃	F	H	OH	H	H
XIV-20-2	p-I—Ph	H	H	CH ₃	Et	N ₃	F	H	OH	H	H
XIV-20-3	p-I—Ph	H	H	CH(CH ₃) ₂	Et	N ₃	F	H	OH	H	H
XIV-20-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	N ₃	F	H	OH	H	H
XIV-20-5	p-I—Ph	H	H	CH ₂ Ph	Et	N ₃	F	H	OH	H	H
XIV-20-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	Et	N ₃	F	H	OH	H	H
XIV-20-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	N ₃	F	H	OH	H	H
XIV-20-8	p-I—Ph	*	H	*	Et	N ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

40

TABLE XIV-21

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIV-21-1	CH ₃	H	H	H	ⁱ Pr	N ₃	F	H	OH	H	H
XIV-21-2	CH ₃	H	H	CH ₃	ⁱ Pr	N ₃	F	H	OH	H	H
XIV-21-3	CH ₃	H	H	CH(CH ₃) ₂	ⁱ Pr	N ₃	F	H	OH	H	H
XIV-21-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	N ₃	F	H	OH	H	H
XIV-21-5	CH ₃	H	H	CH ₂ Ph	ⁱ Pr	N ₃	F	H	OH	H	H
XIV-21-6	CH ₃	H	H	CH ₂ -indol-3-yl	ⁱ Pr	N ₃	F	H	OH	H	H
XIV-21-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	N ₃	F	H	OH	H	H
XIV-21-8	CH ₃	*	H	*	ⁱ Pr	N ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIV-22

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIV-22-1	Et	H	H	H	ⁱ Pr	N ₃	F	H	OH	H	H

TABLE XIV-22-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIV-22-2	Et	H	H	CH ₃	ⁱ Pr	N ₃	F	H	OH	H	H
XIV-22-3	Et	H	H	CH(CH ₃) ₂	ⁱ Pr	N ₃	F	H	OH	H	H
XIV-22-4	Et	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	N ₃	F	H	OH	H	H
XIV-22-5	Et	H	H	CH ₂ Ph	ⁱ Pr	N ₃	F	H	OH	H	H
XIV-22-6	Et	H	H	CH ₂ -indol-3-yl	ⁱ Pr	N ₃	F	H	OH	H	H
XIV-22-7	Et	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	N ₃	F	H	OH	H	H
XIV-22-8	Et	*	H	*	ⁱ Pr	N ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIV-23

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIV-23-1	ⁱ Pr	H	H	H	ⁱ Pr	N ₃	F	H	OH	H	H
XIV-23-2	ⁱ Pr	H	H	CH ₃	ⁱ Pr	N ₃	F	H	OH	H	H
XIV-23-3	ⁱ Pr	H	H	CH(CH ₃) ₂	ⁱ Pr	N ₃	F	H	OH	H	H

313

TABLE XIV-23-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIV-23-4	^t Pr	H	H	CH ₂ CH(CH ₃) ₂	^t Pr	N ₃	F	H	OH	H	H
XIV-23-5	^t Pr	H	H	CH ₂ Ph	^t Pr	N ₃	F	H	OH	H	H
XIV-23-6	^t Pr	H	H	CH ₂ -indol-3-yl	^t Pr	N ₃	F	H	OH	H	H
XIV-23-7	^t Pr	H	H	CH ₂ CH ₂ SCH ₃	^t Pr	N ₃	F	H	OH	H	H
XIV-23-8	^t Pr	*	H	*	^t Pr	N ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIV-24

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIV-24-1	^t Bu	H	H	H	^t Pr	N ₃	F	H	OH	H	H
XIV-24-2	^t Bu	H	H	CH ₃	^t Pr	N ₃	F	H	OH	H	H
XIV-24-3	^t Bu	H	H	CH(CH ₃) ₂	^t Pr	N ₃	F	H	OH	H	H
XIV-24-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	^t Pr	N ₃	F	H	OH	H	H
XIV-24-5	^t Bu	H	H	CH ₂ Ph	^t Pr	N ₃	F	H	OH	H	H
XIV-24-6	^t Bu	H	H	CH ₂ -indol-3-yl	^t Pr	N ₃	F	H	OH	H	H

314

TABLE XIV-24-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIV-24-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	^t Pr	N ₃	F	H	OH	H	H
XIV-24-8	^t Bu	*	H	*	^t Pr	N ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIV-25

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIV-25-1	Ph	H	H	H	^t Pr	N ₃	F	H	OH	H	H
XIV-25-2	Ph	H	H	CH ₃	^t Pr	N ₃	F	H	OH	H	H
XIV-25-3	Ph	H	H	CH(CH ₃) ₂	^t Pr	N ₃	F	H	OH	H	H
XIV-25-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	^t Pr	N ₃	F	H	OH	H	H
XIV-25-5	Ph	H	H	CH ₂ Ph	^t Pr	N ₃	F	H	OH	H	H
XIV-25-6	Ph	H	H	CH ₂ -indol-3-yl	^t Pr	N ₃	F	H	OH	H	H
XIV-25-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	^t Pr	N ₃	F	H	OH	H	H
XIV-25-8	Ph	*	H	*	^t Pr	N ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIV-26

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIV-26-1	p-Me—Ph	H	H	H	^t Pr	N ₃	F	H	OH	H	H
XIV-26-2	p-Me—Ph	H	H	CH ₃	^t Pr	N ₃	F	H	OH	H	H
XIV-26-3	p-Me—Ph	H	H	CH(CH ₃) ₂	^t Pr	N ₃	F	H	OH	H	H
XIV-26-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	^t Pr	N ₃	F	H	OH	H	H
XIV-26-5	p-Me—Ph	H	H	CH ₂ Ph	^t Pr	N ₃	F	H	OH	H	H
XIV-26-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	^t Pr	N ₃	F	H	OH	H	H
XIV-26-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	^t Pr	N ₃	F	H	OH	H	H
XIV-26-8	p-Me—Ph	*	H	*	^t Pr	N ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIV-27

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIV-27-1	p-F—Ph	H	H	H	^t Pr	N ₃	F	H	OH	H	H
XIV-27-2	p-F—Ph	H	H	CH ₃	^t Pr	N ₃	F	H	OH	H	H
XIV-27-3	p-F—Ph	H	H	CH(CH ₃) ₂	^t Pr	N ₃	F	H	OH	H	H
XIV-27-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	^t Pr	N ₃	F	H	OH	H	H
XIV-27-5	p-F—Ph	H	H	CH ₂ Ph	^t Pr	N ₃	F	H	OH	H	H
XIV-27-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	^t Pr	N ₃	F	H	OH	H	H
XIV-27-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	^t Pr	N ₃	F	H	OH	H	H
XIV-27-8	p-F—Ph	*	H	*	^t Pr	N ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIV-28

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIV-28-1	p-Cl—Ph	H	H	H	^t Pr	N ₃	F	H	OH	H	H
XIV-28-2	p-Cl—Ph	H	H	CH ₃	^t Pr	N ₃	F	H	OH	H	H
XIV-28-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	^t Pr	N ₃	F	H	OH	H	H
XIV-28-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	^t Pr	N ₃	F	H	OH	H	H
XIV-28-5	p-Cl—Ph	H	H	CH ₂ Ph	^t Pr	N ₃	F	H	OH	H	H

TABLE XIV-28-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIV-28-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	N ₃	F	H	OH	H	H
XIV-28-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	N ₃	F	H	OH	H	H
XIV-28-8	p-Cl—Ph	*	H	*	ⁱ Pr	N ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIV-29

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIV-29-1	p-Br—Ph	H	H	H	ⁱ Pr	N ₃	F	H	OH	H	H
XIV-29-2	p-Br—Ph	H	H	CH ₃	ⁱ Pr	N ₃	F	H	OH	H	H
XIV-29-3	p-Br—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	N ₃	F	H	OH	H	H
XIV-29-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	N ₃	F	H	OH	H	H
XIV-29-5	p-Br—Ph	H	H	CH ₂ Ph	ⁱ Pr	N ₃	F	H	OH	H	H
XIV-29-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	N ₃	F	H	OH	H	H
XIV-29-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	N ₃	F	H	OH	H	H
XIV-29-8	p-Br—Ph	*	H	*	ⁱ Pr	N ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIV-30

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIV-30-1	p-I—Ph	H	H	H	ⁱ Pr	N ₃	F	H	OH	H	H
XIV-30-2	p-I—Ph	H	H	CH ₃	ⁱ Pr	N ₃	F	H	OH	H	H
XIV-30-3	p-I—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	N ₃	F	H	OH	H	H
XIV-30-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	N ₃	F	H	OH	H	H
XIV-30-5	p-I—Ph	H	H	CH ₂ Ph	ⁱ Pr	N ₃	F	H	OH	H	H
XIV-30-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	N ₃	F	H	OH	H	H
XIV-30-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	N ₃	F	H	OH	H	H
XIV-30-8	p-I—Ph	*	H	*	ⁱ Pr	N ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIV-31

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIV-31-1	CH ₃	H	H	H	ⁿ Bu	N ₃	F	H	OH	H	H
XIV-31-2	CH ₃	H	H	CH ₃	ⁿ Bu	N ₃	F	H	OH	H	H
XIV-31-3	CH ₃	H	H	CH(CH ₃) ₂	ⁿ Bu	N ₃	F	H	OH	H	H
XIV-31-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	N ₃	F	H	OH	H	H
XIV-31-5	CH ₃	H	H	CH ₂ Ph	ⁿ Bu	N ₃	F	H	OH	H	H
XIV-31-6	CH ₃	H	H	CH ₂ -indol-3-yl	ⁿ Bu	N ₃	F	H	OH	H	H
XIV-31-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	N ₃	F	H	OH	H	H
XIV-31-8	CH ₃	*	H	*	ⁿ Bu	N ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIV-32

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIV-32-1	Et	H	H	H	ⁿ Bu	N ₃	F	H	OH	H	H
XIV-32-2	Et	H	H	CH ₃	ⁿ Bu	N ₃	F	H	OH	H	H
XIV-32-3	Et	H	H	CH(CH ₃) ₂	ⁿ Bu	N ₃	F	H	OH	H	H

TABLE XIV-32-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIV-32-4	Et	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	N ₃	F	H	OH	H	H
XIV-32-5	Et	H	H	CH ₂ Ph	ⁿ Bu	N ₃	F	H	OH	H	H
XIV-32-6	Et	H	H	CH ₂ -indol-3-yl	ⁿ Bu	N ₃	F	H	OH	H	H
XIV-32-7	Et	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	N ₃	F	H	OH	H	H
XIV-32-8	Et	*	H	*	ⁿ Bu	N ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIV-33

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIV-33-1	ⁱ Pr	H	H	H	ⁿ Bu	N ₃	F	H	OH	H	H
XIV-33-2	ⁱ Pr	H	H	CH ₃	ⁿ Bu	N ₃	F	H	OH	H	H
XIV-33-3	ⁱ Pr	H	H	CH(CH ₃) ₂	ⁿ Bu	N ₃	F	H	OH	H	H
XIV-33-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	N ₃	F	H	OH	H	H
XIV-33-5	ⁱ Pr	H	H	CH ₂ Ph	ⁿ Bu	N ₃	F	H	OH	H	H
XIV-33-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	ⁿ Bu	N ₃	F	H	OH	H	H

317

TABLE XIV-33-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIV-33-7	^t Pr	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	N ₃	F	H	OH	H	H
XIV-33-8	^t Pr	*	H	*	ⁿ Bu	N ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIV-34

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIV-34-1	^t Bu	H	H	H	ⁿ Bu	N ₃	F	H	OH	H	H
XIV-34-2	^t Bu	H	H	CH ₃	ⁿ Bu	N ₃	F	H	OH	H	H
XIV-34-3	^t Bu	H	H	CH(CH ₃) ₂	ⁿ Bu	N ₃	F	H	OH	H	H
XIV-34-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	N ₃	F	H	OH	H	H
XIV-34-5	^t Bu	H	H	CH ₂ Ph	ⁿ Bu	N ₃	F	H	OH	H	H
XIV-34-6	^t Bu	H	H	CH ₂ -indol-3-yl	ⁿ Bu	N ₃	F	H	OH	H	H
XIV-34-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	N ₃	F	H	OH	H	H

318

TABLE XIV-34-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIV-34-8	^t Bu	*	H	*	ⁿ Bu	N ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIV-35

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIV-35-1	Ph	H	H	H	ⁿ Bu	N ₃	F	H	OH	H	H
XIV-35-2	Ph	H	H	CH ₃	ⁿ Bu	N ₃	F	H	OH	H	H
XIV-35-3	Ph	H	H	CH(CH ₃) ₂	ⁿ Bu	N ₃	F	H	OH	H	H
XIV-35-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	N ₃	F	H	OH	H	H
XIV-35-5	Ph	H	H	CH ₂ Ph	ⁿ Bu	N ₃	F	H	OH	H	H
XIV-35-6	Ph	H	H	CH ₂ -indol-3-yl	ⁿ Bu	N ₃	F	H	OH	H	H
XIV-35-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	N ₃	F	H	OH	H	H
XIV-35-8	Ph	*	H	*	ⁿ Bu	N ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIV-36

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIV-36-1	p-Me-Ph	H	H	H	ⁿ Bu	N ₃	F	H	OH	H	H
XIV-36-2	p-Me-Ph	H	H	CH ₃	ⁿ Bu	N ₃	F	H	OH	H	H
XIV-36-3	p-Me-Ph	H	H	CH(CH ₃) ₂	ⁿ Bu	N ₃	F	H	OH	H	H
XIV-36-4	p-Me-Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	N ₃	F	H	OH	H	H
XIV-36-5	p-Me-Ph	H	H	CH ₂ Ph	ⁿ Bu	N ₃	F	H	OH	H	H
XIV-36-6	p-Me-Ph	H	H	CH ₂ -indol-3-yl	ⁿ Bu	N ₃	F	H	OH	H	H
XIV-36-7	p-Me-Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	N ₃	F	H	OH	H	H
XIV-36-8	p-Me-Ph	*	H	*	ⁿ Bu	N ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIV-37

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIV-37-1	p-F-Ph	H	H	H	ⁿ Bu	N ₃	F	H	OH	H	H
XIV-37-2	p-F-Ph	H	H	CH ₃	ⁿ Bu	N ₃	F	H	OH	H	H
XIV-37-3	p-F-Ph	H	H	CH(CH ₃) ₂	ⁿ Bu	N ₃	F	H	OH	H	H
XIV-37-4	p-F-Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	N ₃	F	H	OH	H	H
XIV-37-5	p-F-Ph	H	H	CH ₂ Ph	ⁿ Bu	N ₃	F	H	OH	H	H
XIV-37-6	p-F-Ph	H	H	CH ₂ -indol-3-yl	ⁿ Bu	N ₃	F	H	OH	H	H
XIV-37-7	p-F-Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	N ₃	F	H	OH	H	H
XIV-37-8	p-F-Ph	*	H	*	ⁿ Bu	N ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIV-38

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIV-38-1	p-Cl-Ph	H	H	H	ⁿ Bu	N ₃	F	H	OH	H	H
XIV-38-2	p-Cl-Ph	H	H	CH ₃	ⁿ Bu	N ₃	F	H	OH	H	H
XIV-38-3	p-Cl-Ph	H	H	CH(CH ₃) ₂	ⁿ Bu	N ₃	F	H	OH	H	H
XIV-38-4	p-Cl-Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	N ₃	F	H	OH	H	H
XIV-38-5	p-Cl-Ph	H	H	CH ₂ Ph	ⁿ Bu	N ₃	F	H	OH	H	H
XIV-38-6	p-Cl-Ph	H	H	CH ₂ -indol-3-yl	ⁿ Bu	N ₃	F	H	OH	H	H
XIV-38-7	p-Cl-Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	N ₃	F	H	OH	H	H
XIV-38-8	p-Cl-Ph	*	H	*	ⁿ Bu	N ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIV-39

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIV-39-1	p-Br-Ph	H	H	H	"Bu	N ₃	F	H	OH	H	H
XIV-39-2	p-Br-Ph	H	H	CH ₃	"Bu	N ₃	F	H	OH	H	H
XIV-39-3	p-Br-Ph	H	H	CH(CH ₃) ₂	"Bu	N ₃	F	H	OH	H	H
XIV-39-4	p-Br-Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	N ₃	F	H	OH	H	H
XIV-39-5	p-Br-Ph	H	H	CH ₂ Ph	"Bu	N ₃	F	H	OH	H	H
XIV-39-6	p-Br-Ph	H	H	CH ₂ -indol-3-yl	"Bu	N ₃	F	H	OH	H	H
XIV-39-7	p-Br-Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	N ₃	F	H	OH	H	H
XIV-39-8	p-Br-Ph	*	H	*	"Bu	N ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIV-40

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIV-40-1	p-I-Ph	H	H	H	"Bu	N ₃	F	H	OH	H	H
XIV-40-2	p-I-Ph	H	H	CH ₃	"Bu	N ₃	F	H	OH	H	H
XIV-40-3	p-I-Ph	H	H	CH(CH ₃) ₂	"Bu	N ₃	F	H	OH	H	H
XIV-40-4	p-I-Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	N ₃	F	H	OH	H	H
XIV-40-5	p-I-Ph	H	H	CH ₂ Ph	"Bu	N ₃	F	H	OH	H	H
XIV-40-6	p-I-Ph	H	H	CH ₂ -indol-3-yl	"Bu	N ₃	F	H	OH	H	H
XIV-40-7	p-I-Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	N ₃	F	H	OH	H	H
XIV-40-8	p-I-Ph	*	H	*	"Bu	N ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIV-41

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIV-41-1	CH ₃	H	H	H	Bz	N ₃	F	H	OH	H	H
XIV-41-2	CH ₃	H	H	CH ₃	Bz	N ₃	F	H	OH	H	H
XIV-41-3	CH ₃	H	H	CH(CH ₃) ₂	Bz	N ₃	F	H	OH	H	H
XIV-41-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	Bz	N ₃	F	H	OH	H	H
XIV-41-5	CH ₃	H	H	CH ₂ Ph	Bz	N ₃	F	H	OH	H	H
XIV-41-6	CH ₃	H	H	CH ₂ -indol-3-yl	Bz	N ₃	F	H	OH	H	H
XIV-41-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	Bz	N ₃	F	H	OH	H	H
XIV-41-8	CH ₃	*	H	*	Bz	N ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIV-42

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIV-42-1	Et	H	H	H	Bz	N ₃	F	H	OH	H	H
XIV-42-2	Et	H	H	CH ₃	Bz	N ₃	F	H	OH	H	H
XIV-42-3	Et	H	H	CH(CH ₃) ₂	Bz	N ₃	F	H	OH	H	H
XIV-42-4	Et	H	H	CH ₂ CH(CH ₃) ₂	Bz	N ₃	F	H	OH	H	H
XIV-42-5	Et	H	H	CH ₂ Ph	Bz	N ₃	F	H	OH	H	H
XIV-42-6	Et	H	H	CH ₂ -indol-3-yl	Bz	N ₃	F	H	OH	H	H
XIV-42-7	Et	H	H	CH ₂ CH ₂ SCH ₃	Bz	N ₃	F	H	OH	H	H
XIV-42-8	Et	*	H	*	Bz	N ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIV-43

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIV-43-1	<i>i</i> Pr	H	H	H	Bz	N ₃	F	H	OH	H	H
XIV-43-2	<i>i</i> Pr	H	H	CH ₃	Bz	N ₃	F	H	OH	H	H
XIV-43-3	<i>i</i> Pr	H	H	CH(CH ₃) ₂	Bz	N ₃	F	H	OH	H	H
XIV-43-4	<i>i</i> Pr	H	H	CH ₂ CH(CH ₃) ₂	Bz	N ₃	F	H	OH	H	H
XIV-43-5	<i>i</i> Pr	H	H	CH ₂ Ph	Bz	N ₃	F	H	OH	H	H
XIV-43-6	<i>i</i> Pr	H	H	CH ₂ -indol-3-yl	Bz	N ₃	F	H	OH	H	H
XIV-43-7	<i>i</i> Pr	H	H	CH ₂ CH ₂ SCH ₃	Bz	N ₃	F	H	OH	H	H
XIV-43-8	<i>i</i> Pr	*	H	*	Bz	N ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIV-44

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIV-44-1	"Bu	H	H	H	Bz	N ₃	F	H	OH	H	H
XIV-44-2	"Bu	H	H	CH ₃	Bz	N ₃	F	H	OH	H	H
XIV-44-3	"Bu	H	H	CH(CH ₃) ₂	Bz	N ₃	F	H	OH	H	H
XIV-44-4	"Bu	H	H	CH ₂ CH(CH ₃) ₂	Bz	N ₃	F	H	OH	H	H
XIV-44-5	"Bu	H	H	CH ₂ Ph	Bz	N ₃	F	H	OH	H	H

321

TABLE XIV-44-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIV-44-6	t-Bu	H	H	CH ₂ -indol-3-yl	Bz	N ₃	F	H	OH	H	H
XIV-44-7	t-Bu	H	H	CH ₂ CH ₂ SCH ₃	Bz	N ₃	F	H	OH	H	H
XIV-44-8	t-Bu	*	H	*	Bz	N ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIV-45

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIV-45-1	Ph	H	H	H	Bz	N ₃	F	H	OH	H	H

322

TABLE XIV-45-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIV-45-2	Ph	H	H	CH ₃	Bz	N ₃	F	H	OH	H	H
XIV-45-3	Ph	H	H	CH(CH ₃) ₂	Bz	N ₃	F	H	OH	H	H
XIV-45-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	N ₃	F	H	OH	H	H
XIV-45-5	Ph	H	H	CH ₂ Ph	Bz	N ₃	F	H	OH	H	H
XIV-45-6	Ph	H	H	CH ₂ -indol-3-yl	Bz	N ₃	F	H	OH	H	H
XIV-45-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	N ₃	F	H	OH	H	H
XIV-45-8	Ph	*	H	*	Bz	N ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIV-46

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIV-46-1	p-Me-Ph	H	H	H	Bz	N ₃	F	H	OH	H	H
XIV-46-2	p-Me-Ph	H	H	CH ₃	Bz	N ₃	F	H	OH	H	H
XIV-46-3	p-Me-Ph	H	H	CH(CH ₃) ₂	Bz	N ₃	F	H	OH	H	H
XIV-46-4	p-Me-Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	N ₃	F	H	OH	H	H
XIV-46-5	p-Me-Ph	H	H	CH ₂ Ph	Bz	N ₃	F	H	OH	H	H
XIV-46-6	p-Me-Ph	H	H	CH ₂ -indol-3-yl	Bz	N ₃	F	H	OH	H	H
XIV-46-7	p-Me-Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	N ₃	F	H	OH	H	H
XIV-46-8	p-Me-Ph	*	H	*	Bz	N ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIV-47

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIV-47-1	p-F-Ph	H	H	H	Bz	N ₃	F	H	OH	H	H
XIV-47-2	p-F-Ph	H	H	CH ₃	Bz	N ₃	F	H	OH	H	H
XIV-47-3	p-F-Ph	H	H	CH(CH ₃) ₂	Bz	N ₃	F	H	OH	H	H
XIV-47-4	p-F-Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	N ₃	F	H	OH	H	H
XIV-47-5	p-F-Ph	H	H	CH ₂ Ph	Bz	N ₃	F	H	OH	H	H
XIV-47-6	p-F-Ph	H	H	CH ₂ -indol-3-yl	Bz	N ₃	F	H	OH	H	H
XIV-47-7	p-F-Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	N ₃	F	H	OH	H	H
XIV-47-8	p-F-Ph	*	H	*	Bz	N ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIV-48

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIV-48-1	p-Cl-Ph	H	H	H	Bz	N ₃	F	H	OH	H	H
XIV-48-2	p-Cl-Ph	H	H	CH ₃	Bz	N ₃	F	H	OH	H	H
XIV-48-3	p-Cl-Ph	H	H	CH(CH ₃) ₂	Bz	N ₃	F	H	OH	H	H
XIV-48-4	p-Cl-Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	N ₃	F	H	OH	H	H
XIV-48-5	p-Cl-Ph	H	H	CH ₂ Ph	Bz	N ₃	F	H	OH	H	H
XIV-48-6	p-Cl-Ph	H	H	CH ₂ -indol-3-yl	Bz	N ₃	F	H	OH	H	H
XIV-48-7	p-Cl-Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	N ₃	F	H	OH	H	H
XIV-48-8	p-Cl-Ph	*	H	*	Bz	N ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIV-49

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIV-49-1	p-Br-Ph	H	H	H	Bz	N ₃	F	H	OH	H	H
XIV-49-2	p-Br-Ph	H	H	CH ₃	Bz	N ₃	F	H	OH	H	H
XIV-49-3	p-Br-Ph	H	H	CH(CH ₃) ₂	Bz	N ₃	F	H	OH	H	H
XIV-49-4	p-Br-Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	N ₃	F	H	OH	H	H
XIV-49-5	p-Br-Ph	H	H	CH ₂ Ph	Bz	N ₃	F	H	OH	H	H

TABLE XIV-49-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIV-49-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	Bz	N ₃	F	H	OH	H	H
XIV-49-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	N ₃	F	H	OH	H	H
XIV-49-8	p-Br—Ph	*	H	*	Bz	N ₃	F	H	OH	H	H

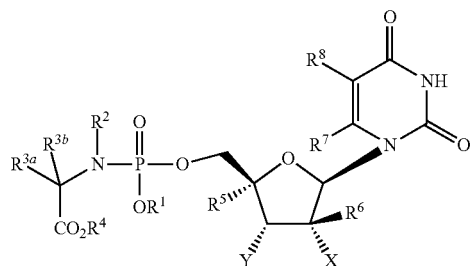
*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIV-50

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIV-50-1	p-I—Ph	H	H	H	Bz	N ₃	F	H	OH	H	H
XIV-50-2	p-I—Ph	H	H	CH ₃	Bz	N ₃	F	H	OH	H	H
XIV-50-3	p-I—Ph	H	H	CH(CH ₃) ₂	Bz	N ₃	F	H	OH	H	H
XIV-50-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	N ₃	F	H	OH	H	H
XIV-50-5	p-I—Ph	H	H	CH ₂ Ph	Bz	N ₃	F	H	OH	H	H
XIV-50-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	Bz	N ₃	F	H	OH	H	H
XIV-50-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	N ₃	F	H	OH	H	H
XIV-50-8	p-I—Ph	*	H	*	Bz	N ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

XV 25



30

35

TABLE XV-1

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-1-1	CH ₃	H	H	H	CH ₃	F	F	H	OH	H	H
XV-1-2	CH ₃	H	H	CH ₃	CH ₃	F	F	H	OH	H	H
XV-1-3	CH ₃	H	H	CH(CH ₃) ₂	CH ₃	F	F	H	OH	H	H
XV-1-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	F	F	H	OH	H	H
XV-1-5	CH ₃	H	H	CH ₂ Ph	CH ₃	F	F	H	OH	H	H
XV-1-6	CH ₃	H	H	CH ₂ -indol-3-yl	CH ₃	F	F	H	OH	H	H
XV-1-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	F	F	H	OH	H	H
XV-1-8	CH ₃	*	H	*	CH ₃	F	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XV-2

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-2-1	Et	H	H	H	CH ₃	F	F	H	OH	H	H
XV-2-2	Et	H	H	CH ₃	CH ₃	F	F	H	OH	H	H
XV-2-3	Et	H	H	CH(CH ₃) ₂	CH ₃	F	F	H	OH	H	H
XV-2-4	Et	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	F	F	H	OH	H	H
XV-2-5	Et	H	H	CH ₂ Ph	CH ₃	F	F	H	OH	H	H
XV-2-6	Et	H	H	CH ₂ -indol-3-yl	CH ₃	F	F	H	OH	H	H

TABLE XV-2-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-2-7	Et	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	F	F	H	OH	H	H
XV-2-8	Et	*	H	*	CH ₃	F	F	H	OH	H	H

60 *R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XV-3

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-3-1	ⁱ Pr	H	H	H	CH ₃	F	F	H	OH	H	H

325

TABLE XV-3-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-3-2	ⁱ Pr	H	H	CH ₃	CH ₃	F	F	H	OH	H	H
XV-3-3	ⁱ Pr	H	H	CH(CH ₃) ₂	CH ₃	F	F	H	OH	H	H
XV-3-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	F	F	H	OH	H	H
XV-3-5	ⁱ Pr	H	H	CH ₂ Ph	CH ₃	F	F	H	OH	H	H
XV-3-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	CH ₃	F	F	H	OH	H	H
XV-3-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	F	F	H	OH	H	H
XV-3-8	ⁱ Pr	*	H	*	CH ₃	F	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XV-4

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-4-1	^t Bu	H	H	H	CH ₃	F	F	H	OH	H	H
XV-4-2	^t Bu	H	H	CH ₃	CH ₃	F	F	H	OH	H	H
XV-4-3	^t Bu	H	H	CH(CH ₃) ₂	CH ₃	F	F	H	OH	H	H
XV-4-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	F	F	H	OH	H	H
XV-4-5	^t Bu	H	H	CH ₂ Ph	CH ₃	F	F	H	OH	H	H

326

TABLE XV-4-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-4-6	^t Bu	H	H	CH ₂ -indol-3-yl	CH ₃	F	F	H	OH	H	H
XV-4-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	F	F	H	OH	H	H
XV-4-8	^t Bu	*	H	*	CH ₃	F	F	H	OH	H	H

10 *R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XV-5

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-5-1	Ph	H	H	H	CH ₃	F	F	H	OH	H	H
XV-5-2	Ph	H	H	CH ₃	CH ₃	F	F	H	OH	H	H
XV-5-3	Ph	H	H	CH(CH ₃) ₂	CH ₃	F	F	H	OH	H	H
XV-5-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	F	F	H	OH	H	H
XV-5-5	Ph	H	H	CH ₂ Ph	CH ₃	F	F	H	OH	H	H
XV-5-6	Ph	H	H	CH ₂ -indol-3-yl	CH ₃	F	F	H	OH	H	H
XV-5-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	F	F	H	OH	H	H
XV-5-8	Ph	*	H	*	CH ₃	F	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XV-6

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-6-1	p-Me-Ph	H	H	H	CH ₃	F	F	H	OH	H	H
XV-6-2	p-Me-Ph	H	H	CH ₃	CH ₃	F	F	H	OH	H	H
XV-6-3	p-Me-Ph	H	H	CH(CH ₃) ₂	CH ₃	F	F	H	OH	H	H
XV-6-4	p-Me-Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	F	F	H	OH	H	H
XV-6-5	p-Me-Ph	H	H	CH ₂ Ph	CH ₃	F	F	H	OH	H	H
XV-6-6	p-Me-Ph	H	H	CH ₂ -indol-3-yl	CH ₃	F	F	H	OH	H	H
XV-6-7	p-Me-Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	F	F	H	OH	H	H
XV-6-8	p-Me-Ph	*	H	*	CH ₃	F	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XV-7

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-7-1	p-F-Ph	H	H	H	CH ₃	F	F	H	OH	H	H
XV-7-2	p-F-Ph	H	H	CH ₃	CH ₃	F	F	H	OH	H	H
XV-7-3	p-F-Ph	H	H	CH(CH ₃) ₂	CH ₃	F	F	H	OH	H	H
XV-7-4	p-F-Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	F	F	H	OH	H	H
XV-7-6	p-F-Ph	H	H	CH ₂ Ph	CH ₃	F	F	H	OH	H	H
XV-7-7	p-F-Ph	H	H	CH ₂ -indol-3-yl	CH ₃	F	F	H	OH	H	H
XV-7-8	p-F-Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	F	F	H	OH	H	H
XV-7-20	p-F-Ph	*	H	*	CH ₃	F	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XV-8

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-8-1	p-Cl-Ph	H	H	H	CH ₃	F	F	H	OH	H	H
XV-8-2	p-Cl-Ph	H	H	CH ₃	CH ₃	F	F	H	OH	H	H
XV-8-3	p-Cl-Ph	H	H	CH(CH ₃) ₂	CH ₃	F	F	H	OH	H	H

TABLE XV-8-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-8-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	F	F	H	OH	H	H
XV-8-5	p-Cl—Ph	H	H	CH ₂ Ph	CH ₃	F	F	H	OH	H	H
XV-8-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	F	F	H	OH	H	H
XV-8-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	F	F	H	OH	H	H
XV-8-8	p-Cl—Ph	*	H	*	CH ₃	F	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XV-9

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-9-1	p-Br—Ph	H	H	H	CH ₃	F	F	H	OH	H	H
XV-9-2	p-Br—Ph	H	H	CH ₃	CH ₃	F	F	H	OH	H	H
XV-9-3	p-Br—Ph	H	H	CH(CH ₃) ₂	CH ₃	F	F	H	OH	H	H
XV-9-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	F	F	H	OH	H	H
XV-9-6	p-Br—Ph	H	H	CH ₂ Ph	CH ₃	F	F	H	OH	H	H
XV-9-7	p-Br—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	F	F	H	OH	H	H
XV-9-8	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	F	F	H	OH	H	H
XV-9-20	p-Br—Ph	*	H	*	CH ₃	F	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

25

TABLE XV-10

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-10-1	p-I—Ph	H	H	H	CH ₃	F	F	H	OH	H	H
XV-10-2	p-I—Ph	H	H	CH ₃	CH ₃	F	F	H	OH	H	H
XV-10-3	p-I—Ph	H	H	CH(CH ₃) ₂	CH ₃	F	F	H	OH	H	H
XV-10-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	F	F	H	OH	H	H
XV-10-5	p-I—Ph	H	H	CH ₂ Ph	CH ₃	F	F	H	OH	H	H
XV-10-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	F	F	H	OH	H	H
XV-10-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	F	F	H	OH	H	H
XV-10-8	p-I—Ph	*	H	*	CH ₃	F	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

40

TABLE XV-11

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-11-1	CH ₃	H	H	H	Et	F	F	H	OH	H	H
XV-11-2	CH ₃	H	H	CH ₃	Et	F	F	H	OH	H	H
XV-11-3	CH ₃	H	H	CH(CH ₃) ₂	Et	F	F	H	OH	H	H
XV-11-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	Et	F	F	H	OH	H	H
XV-11-5	CH ₃	H	H	CH ₂ Ph	Et	F	F	H	OH	H	H
XV-11-6	CH ₃	H	H	CH ₂ -indol-3-yl	Et	F	F	H	OH	H	H
XV-11-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	Et	F	F	H	OH	H	H
XV-11-8	CH ₃	*	H	*	Et	F	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XV-12

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-12-1	Et	H	H	H	Et	F	F	H	OH	H	H
XV-12-2	Et	H	H	CH ₃	Et	F	F	H	OH	H	H

TABLE XV-12-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-12-3	Et	H	H	CH(CH ₃) ₂	Et	F	F	H	OH	H	H
XV-12-4	Et	H	H	CH ₂ CH(CH ₃) ₂	Et	F	F	H	OH	H	H
XV-12-5	Et	H	H	CH ₂ Ph	Et	F	F	H	OH	H	H
XV-12-6	Et	H	H	CH ₂ -indol-3-yl	Et	F	F	H	OH	H	H
XV-12-7	Et	H	H	CH ₂ CH ₂ SCH ₃	Et	F	F	H	OH	H	H
XV-12-8	Et	*	H	*	Et	F	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XV-13

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-13-1	ⁱ Pr	H	H	H	Et	F	F	H	OH	H	H
XV-13-2	ⁱ Pr	H	H	CH ₃	Et	F	F	H	OH	H	H
XV-13-3	ⁱ Pr	H	H	CH(CH ₃) ₂	Et	F	F	H	OH	H	H
XV-13-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	Et	F	F	H	OH	H	H

329

TABLE XV-13-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-13-5	ⁱ Pr	H	H	CH ₂ Ph	Et	F	F	H	OH	H	H
XV-13-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	Et	F	F	H	OH	H	H
XV-13-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	Et	F	F	H	OH	H	H
XV-13-8	ⁱ Pr	*	H	*	Et	F	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XV-14

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-14-1	^t Bu	H	H	H	Et	F	F	H	OH	H	H
XV-14-2	^t Bu	H	H	CH ₃	Et	F	F	H	OH	H	H
XV-14-3	^t Bu	H	H	CH(CH ₃) ₂	Et	F	F	H	OH	H	H
XV-14-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	Et	F	F	H	OH	H	H
XV-14-5	^t Bu	H	H	CH ₂ Ph	Et	F	F	H	OH	H	H
XV-14-6	^t Bu	H	H	CH ₂ -indol-3-yl	Et	F	F	H	OH	H	H

330

TABLE XV-14-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-14-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	Et	F	F	H	OH	H	H
XV-14-8	^t Bu	*	H	*	Et	F	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XV-15

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-15-1	Ph	H	H	H	Et	F	F	H	OH	H	H
XV-15-2	Ph	H	H	CH ₃	Et	F	F	H	OH	H	H
XV-15-3	Ph	H	H	CH(CH ₃) ₂	Et	F	F	H	OH	H	H
XV-15-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	F	F	H	OH	H	H
XV-15-5	Ph	H	H	CH ₂ Ph	Et	F	F	H	OH	H	H
XV-15-6	Ph	H	H	CH ₂ -indol-3-yl	Et	F	F	H	OH	H	H
XV-15-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	F	F	H	OH	H	H
XV-15-8	Ph	*	H	*	Et	F	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XV-16

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-16-1	p-Me—Ph	H	H	H	Et	F	F	H	OH	H	H
XV-16-2	p-Me—Ph	H	H	CH ₃	Et	F	F	H	OH	H	H
XV-16-3	p-Me—Ph	H	H	CH(CH ₃) ₂	Et	F	F	H	OH	H	H
XV-16-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	F	F	H	OH	H	H
XV-16-5	p-Me—Ph	H	H	CH ₂ Ph	Et	F	F	H	OH	H	H
XV-16-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	Et	F	F	H	OH	H	H
XV-16-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	F	F	H	OH	H	H
XV-16-8	p-Me—Ph	*	H	*	Et	F	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XV-17

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-17-1	p-F—Ph	H	H	H	Et	F	F	H	OH	H	H
XV-17-2	p-F—Ph	H	H	CH ₃	Et	F	F	H	OH	H	H
XV-17-3	p-F—Ph	H	H	CH(CH ₃) ₂	Et	F	F	H	OH	H	H
XV-17-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	F	F	H	OH	H	H
XV-17-5	p-F—Ph	H	H	CH ₂ Ph	Et	F	F	H	OH	H	H
XV-17-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	Et	F	F	H	OH	H	H
XV-17-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	F	F	H	OH	H	H
XV-17-8	p-F—Ph	*	H	*	Et	F	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XV-18

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-18-1	p-Cl—Ph	H	H	H	Et	F	F	H	OH	H	H
XV-18-2	p-Cl—Ph	H	H	CH ₃	Et	F	F	H	OH	H	H
XV-18-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	Et	F	F	H	OH	H	H
XV-18-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	F	F	H	OH	H	H
XV-18-5	p-Cl—Ph	H	H	CH ₂ Ph	Et	F	F	H	OH	H	H
XV-18-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	Et	F	F	H	OH	H	H

TABLE XV-18-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-18-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	F	F	H	OH	H	H
XV-18-8	p-Cl—Ph	*	H	*	Et	F	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XV-19

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-19-1	p-Br—Ph	H	H	H	Et	F	F	H	OH	H	H
XV-19-2	p-Br—Ph	H	H	CH ₃	Et	F	F	H	OH	H	H
XV-19-3	p-Br—Ph	H	H	CH(CH ₃) ₂	Et	F	F	H	OH	H	H
XV-19-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	F	F	H	OH	H	H
XV-19-5	p-Br—Ph	H	H	CH ₂ Ph	Et	F	F	H	OH	H	H
XV-19-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	Et	F	F	H	OH	H	H
XV-19-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	F	F	H	OH	H	H
XV-19-8	p-Br—Ph	*	H	*	Et	F	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XV-20

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-20-1	p-I—Ph	H	H	H	Et	F	F	H	OH	H	H
XV-20-2	p-I—Ph	H	H	CH ₃	Et	F	F	H	OH	H	H
XV-20-3	p-I—Ph	H	H	CH(CH ₃) ₂	Et	F	F	H	OH	H	H
XV-20-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	F	F	H	OH	H	H
XV-20-5	p-I—Ph	H	H	CH ₂ Ph	Et	F	F	H	OH	H	H
XV-20-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	Et	F	F	H	OH	H	H
XV-20-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	F	F	H	OH	H	H
XV-20-8	p-I—Ph	*	H	*	Et	F	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XV-21

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-21-1	CH ₃	H	H	H	ⁱ Pr	F	F	H	OH	H	H
XV-21-2	CH ₃	H	H	CH ₃	ⁱ Pr	F	F	H	OH	H	H
XV-21-3	CH ₃	H	H	CH(CH ₃) ₂	ⁱ Pr	F	F	H	OH	H	H
XV-21-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	F	F	H	OH	H	H
XV-21-5	CH ₃	H	H	CH ₂ Ph	ⁱ Pr	F	F	H	OH	H	H
XV-21-6	CH ₃	H	H	CH ₂ -indol-3-yl	ⁱ Pr	F	F	H	OH	H	H
XV-21-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	F	F	H	OH	H	H
XV-21-8	CH ₃	*	H	*	ⁱ Pr	F	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

50

TABLE XV-22

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-22-1	Et	H	H	H	ⁱ Pr	F	F	H	OH	H	H
XV-22-2	Et	H	H	CH ₃	ⁱ Pr	F	F	H	OH	H	H
XV-22-3	Et	H	H	CH(CH ₃) ₂	ⁱ Pr	F	F	H	OH	H	H
XV-22-4	Et	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	F	F	H	OH	H	H
XV-22-5	Et	H	H	CH ₂ Ph	ⁱ Pr	F	F	H	OH	H	H
XV-22-6	Et	H	H	CH ₂ -indol-3-yl	ⁱ Pr	F	F	H	OH	H	H

TABLE XV-22-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
55 XV-22-7	Et	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	F	F	H	OH	H	H
XV-22-8	Et	*	H	*	ⁱ Pr	F	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XV-23

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
65 XV-23-1	ⁱ Pr	H	H	H	ⁱ Pr	F	F	H	OH	H	H

333

TABLE XV-23-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-23-2	ⁱ Pr	H	H	CH ₃	ⁱ Pr	F	F	H	OH	H	H
XV-23-3	ⁱ Pr	H	H	CH(CH ₃) ₂	ⁱ Pr	F	F	H	OH	H	H
XV-23-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	F	F	H	OH	H	H
XV-23-5	ⁱ Pr	H	H	CH ₂ Ph	ⁱ Pr	F	F	H	OH	H	H
XV-23-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	ⁱ Pr	F	F	H	OH	H	H
XV-23-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	F	F	H	OH	H	H
XV-23-8	ⁱ Pr	*	H	*	ⁱ Pr	F	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XV-24

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-24-1	^t Bu	H	H	H	ⁱ Pr	F	F	H	OH	H	H
XV-24-2	^t Bu	H	H	CH ₃	ⁱ Pr	F	F	H	OH	H	H
XV-24-3	^t Bu	H	H	CH(CH ₃) ₂	ⁱ Pr	F	F	H	OH	H	H
XV-24-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	F	F	H	OH	H	H
XV-24-5	^t Bu	H	H	CH ₂ Ph	ⁱ Pr	F	F	H	OH	H	H

334

TABLE XV-24-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-24-6	^t Bu	H	H	CH ₂ -indol-3-yl	ⁱ Pr	F	F	H	OH	H	H
XV-24-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	F	F	H	OH	H	H
XV-24-8	^t Bu	*	H	*	ⁱ Pr	F	F	H	OH	H	H

10 *R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XV-25

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-25-1	Ph	H	H	H	ⁱ Pr	F	F	H	OH	H	H
XV-25-2	Ph	H	H	CH ₃	ⁱ Pr	F	F	H	OH	H	H
XV-25-3	Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	F	F	H	OH	H	H
XV-25-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	F	F	H	OH	H	H
XV-25-5	Ph	H	H	CH ₂ Ph	ⁱ Pr	F	F	H	OH	H	H
XV-25-6	Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	F	F	H	OH	H	H
XV-25-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	F	F	H	OH	H	H
XV-25-8	Ph	*	H	*	ⁱ Pr	F	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XV-26

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-26-1	p-Me—Ph	H	H	H	ⁱ Pr	F	F	H	OH	H	H
XV-26-2	p-Me—Ph	H	H	CH ₃	ⁱ Pr	F	F	H	OH	H	H
XV-26-3	p-Me—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	F	F	H	OH	H	H
XV-26-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	F	F	H	OH	H	H
XV-26-5	p-Me—Ph	H	H	CH ₂ Ph	ⁱ Pr	F	F	H	OH	H	H
XV-26-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	F	F	H	OH	H	H
XV-26-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	F	F	H	OH	H	H
XV-26-8	p-Me—Ph	*	H	*	ⁱ Pr	F	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XV-27

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-27-1	p-F—Ph	H	H	H	ⁱ Pr	F	F	H	OH	H	H
XV-27-2	p-F—Ph	H	H	CH ₃	ⁱ Pr	F	F	H	OH	H	H
XV-27-3	p-F—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	F	F	H	OH	H	H
XV-27-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	F	F	H	OH	H	H
XV-27-5	p-F—Ph	H	H	CH ₂ Ph	ⁱ Pr	F	F	H	OH	H	H
XV-27-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	F	F	H	OH	H	H
XV-27-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	F	F	H	OH	H	H
XV-27-8	p-F—Ph	*	H	*	ⁱ Pr	F	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XV-28

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-28-1	p-Cl—Ph	H	H	H	ⁱ Pr	F	F	H	OH	H	H
XV-28-2	p-Cl—Ph	H	H	CH ₃	ⁱ Pr	F	F	H	OH	H	H
XV-28-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	F	F	H	OH	H	H

TABLE XV-28-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-28-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	F	F	H	OH	H	H
XV-28-5	p-Cl—Ph	H	H	CH ₂ Ph	ⁱ Pr	F	F	H	OH	H	H
XV-28-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	F	F	H	OH	H	H
XV-28-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	F	F	H	OH	H	H
XV-28-8	p-Cl—Ph	*	H	*	ⁱ Pr	F	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XV-29

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-29-1	p-Br—Ph	H	H	H	ⁱ Pr	F	F	H	OH	H	H
XV-29-2	p-Br—Ph	H	H	CH ₃	ⁱ Pr	F	F	H	OH	H	H
XV-29-3	p-Br—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	F	F	H	OH	H	H
XV-29-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	F	F	H	OH	H	H
XV-29-5	p-Br—Ph	H	H	CH ₂ Ph	ⁱ Pr	F	F	H	OH	H	H
XV-29-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	F	F	H	OH	H	H
XV-29-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	F	F	H	OH	H	H
XV-29-8	p-Br—Ph	*	H	*	ⁱ Pr	F	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

25

TABLE XV-30

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-30-1	p-I—Ph	H	H	H	ⁱ Pr	F	F	H	OH	H	H
XV-30-2	p-I—Ph	H	H	CH ₃	ⁱ Pr	F	F	H	OH	H	H
XV-30-3	p-I—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	F	F	H	OH	H	H
XV-30-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	F	F	H	OH	H	H
XV-30-5	p-I—Ph	H	H	CH ₂ Ph	ⁱ Pr	F	F	H	OH	H	H
XV-30-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	F	F	H	OH	H	H
XV-30-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	F	F	H	OH	H	H
XV-30-8	p-I—Ph	*	H	*	ⁱ Pr	F	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XV-31

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-31-1	CH ₃	H	H	H	ⁿ Bu	F	F	H	OH	H	H
XV-31-2	CH ₃	H	H	CH ₃	ⁿ Bu	F	F	H	OH	H	H
XV-31-3	CH ₃	H	H	CH(CH ₃) ₂	ⁿ Bu	F	F	H	OH	H	H
XV-31-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	F	F	H	OH	H	H
XV-31-5	CH ₃	H	H	CH ₂ Ph	ⁿ Bu	F	F	H	OH	H	H
XV-31-6	CH ₃	H	H	CH ₂ -indol-3-yl	ⁿ Bu	F	F	H	OH	H	H
XV-31-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	F	F	H	OH	H	H
XV-31-8	CH ₃	*	H	*	ⁿ Bu	F	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XV-32

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-32-1	Et	H	H	H	ⁿ Bu	F	F	H	OH	H	H
XV-32-2	Et	H	H	CH ₃	ⁿ Bu	F	F	H	OH	H	H
XV-32-3	Et	H	H	CH(CH ₃) ₂	ⁿ Bu	F	F	H	OH	H	H
XV-32-4	Et	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	F	F	H	OH	H	H
XV-32-5	Et	H	H	CH ₂ Ph	ⁿ Bu	F	F	H	OH	H	H

55

TABLE XV-32-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-32-6	Et	H	H	CH ₂ -indol-3-yl	ⁿ Bu	F	F	H	OH	H	H
XV-32-7	Et	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	F	F	H	OH	H	H
XV-32-8	Et	*	H	*	ⁿ Bu	F	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

337

TABLE XV-33

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-33-1	ⁱ Pr	H	H	H	"Bu	F	F	H	OH	H	H
XV-33-2	ⁱ Pr	H	H	CH ₃	"Bu	F	F	H	OH	H	H
XV-33-3	ⁱ Pr	H	H	CH(CH ₃) ₂	"Bu	F	F	H	OH	H	H
XV-33-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	"Bu	F	F	H	OH	H	H
XV-33-5	ⁱ Pr	H	H	CH ₂ Ph	"Bu	F	F	H	OH	H	H
XV-33-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	"Bu	F	F	H	OH	H	H
XV-33-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	"Bu	F	F	H	OH	H	H
XV-33-8	ⁱ Pr	*	H	*	"Bu	F	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XV-34

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-34-1	"Bu	H	H	H	"Bu	F	F	H	OH	H	H
XV-34-2	"Bu	H	H	CH ₃	"Bu	F	F	H	OH	H	H
XV-34-3	"Bu	H	H	CH(CH ₃) ₂	"Bu	F	F	H	OH	H	H
XV-34-4	"Bu	H	H	CH ₂ CH(CH ₃) ₂	"Bu	F	F	H	OH	H	H

338

TABLE XV-34-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-34-5	"Bu	H	H	CH ₂ Ph	"Bu	F	F	H	OH	H	H
XV-34-6	"Bu	H	H	CH ₂ -indol-3-yl	"Bu	F	F	H	OH	H	H
XV-34-7	"Bu	H	H	CH ₂ CH ₂ SCH ₃	"Bu	F	F	H	OH	H	H
XV-34-8	"Bu	*	H	*	"Bu	F	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XV-35

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-35-1	Ph	H	H	H	"Bu	F	F	H	OH	H	H
XV-35-2	Ph	H	H	CH ₃	"Bu	F	F	H	OH	H	H
XV-35-3	Ph	H	H	CH(CH ₃) ₂	"Bu	F	F	H	OH	H	H
XV-35-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	F	F	H	OH	H	H
XV-35-5	Ph	H	H	CH ₂ Ph	"Bu	F	F	H	OH	H	H
XV-35-6	Ph	H	H	CH ₂ -indol-3-yl	"Bu	F	F	H	OH	H	H
XV-35-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	F	F	H	OH	H	H
XV-35-8	Ph	*	H	*	"Bu	F	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XV-36

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-36-1	p-Me-Ph	H	H	H	"Bu	F	F	H	OH	H	H
XV-36-2	p-Me-Ph	H	H	CH ₃	"Bu	F	F	H	OH	H	H
XV-36-3	p-Me-Ph	H	H	CH(CH ₃) ₂	"Bu	F	F	H	OH	H	H
XV-36-4	p-Me-Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	F	F	H	OH	H	H
XV-36-5	p-Me-Ph	H	H	CH ₂ Ph	"Bu	F	F	H	OH	H	H
XV-36-6	p-Me-Ph	H	H	CH ₂ -indol-3-yl	"Bu	F	F	H	OH	H	H
XV-36-7	p-Me-Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	F	F	H	OH	H	H
XV-36-8	p-Me-Ph	*	H	*	"Bu	F	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XV-37

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-37-1	p-F-Ph	H	H	H	"Bu	F	F	H	OH	H	H
XV-37-2	p-F-Ph	H	H	CH ₃	"Bu	F	F	H	OH	H	H
XV-37-3	p-F-Ph	H	H	CH(CH ₃) ₂	"Bu	F	F	H	OH	H	H
XV-37-4	p-F-Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	F	F	H	OH	H	H
XV-37-5	p-F-Ph	H	H	CH ₂ Ph	"Bu	F	F	H	OH	H	H
XV-37-6	p-F-Ph	H	H	CH ₂ -indol-3-yl	"Bu	F	F	H	OH	H	H
XV-37-7	p-F-Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	F	F	H	OH	H	H
XV-37-8	p-F-Ph	*	H	*	"Bu	F	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XV-38

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-38-1	p-Cl-Ph	H	H	H	"Bu	F	F	H	OH	H	H
XV-38-2	p-Cl-Ph	H	H	CH ₃	"Bu	F	F	H	OH	H	H

TABLE XV-38-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-38-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	ⁿ Bu	F	F	H	OH	H	H
XV-38-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	F	F	H	OH	H	H
XV-38-5	p-Cl—Ph	H	H	CH ₂ Ph	ⁿ Bu	F	F	H	OH	H	H
XV-38-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	ⁿ Bu	F	F	H	OH	H	H
XV-38-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	F	F	H	OH	H	H
XV-38-8	p-Cl—Ph	*	H	*	ⁿ Bu	F	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XV-39

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-39-1	p-Br—Ph	H	H	H	ⁿ Bu	F	F	H	OH	H	H
XV-39-2	p-Br—Ph	H	H	CH ₃	ⁿ Bu	F	F	H	OH	H	H
XV-39-3	p-Br—Ph	H	H	CH(CH ₃) ₂	ⁿ Bu	F	F	H	OH	H	H
XV-39-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	F	F	H	OH	H	H
XV-39-5	p-Br—Ph	H	H	CH ₂ Ph	ⁿ Bu	F	F	H	OH	H	H
XV-39-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	ⁿ Bu	F	F	H	OH	H	H
XV-39-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	F	F	H	OH	H	H
XV-39-8	p-Br—Ph	*	H	*	ⁿ Bu	F	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XV-40

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-40-1	p-I—Ph	H	H	H	ⁿ Bu	F	F	H	OH	H	H
XV-40-2	p-I—Ph	H	H	CH ₃	ⁿ Bu	F	F	H	OH	H	H
XV-40-3	p-I—Ph	H	H	CH(CH ₃) ₂	ⁿ Bu	F	F	H	OH	H	H
XV-40-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	F	F	H	OH	H	H
XV-40-5	p-I—Ph	H	H	CH ₂ Ph	ⁿ Bu	F	F	H	OH	H	H
XV-40-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	ⁿ Bu	F	F	H	OH	H	H
XV-40-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	F	F	H	OH	H	H
XV-40-8	p-I—Ph	*	H	*	ⁿ Bu	F	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

40

TABLE XV-41

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-41-1	CH ₃	H	H	H	Bz	F	F	H	OH	H	H
XV-41-2	CH ₃	H	H	CH ₃	Bz	F	F	H	OH	H	H
XV-41-3	CH ₃	H	H	CH(CH ₃) ₂	Bz	F	F	H	OH	H	H
XV-41-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	Bz	F	F	H	OH	H	H
XV-41-5	CH ₃	H	H	CH ₂ Ph	Bz	F	F	H	OH	H	H
XV-41-6	CH ₃	H	H	CH ₂ -indol-3-yl	Bz	F	F	H	OH	H	H
XV-41-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	Bz	F	F	H	OH	H	H
XV-41-8	CH ₃	*	H	*	Bz	F	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

55

TABLE XV-42

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-42-1	Et	H	H	H	Bz	F	F	H	OH	H	H
XV-42-2	Et	H	H	CH ₃	Bz	F	F	H	OH	H	H
XV-42-3	Et	H	H	CH(CH ₃) ₂	Bz	F	F	H	OH	H	H
XV-42-4	Et	H	H	CH ₂ CH(CH ₃) ₂	Bz	F	F	H	OH	H	H

TABLE XV-42-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-42-5	Et	H	H	CH ₂ Ph	Bz	F	F	H	OH	H	H
XV-42-6	Et	H	H	CH ₂ -indol-3-yl	Bz	F	F	H	OH	H	H
XV-42-7	Et	H	H	CH ₂ CH ₂ SCH ₃	Bz	F	F	H	OH	H	H
XV-42-8	Et	*	H	*	Bz	F	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

341

TABLE XV-43

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-43-1	ⁱ Pr	H	H	H	Bz	F	F	H	OH	H	H
XV-43-2	ⁱ Pr	H	H	CH ₃	Bz	F	F	H	OH	H	H
XV-43-3	ⁱ Pr	H	H	CH(CH ₃) ₂	Bz	F	F	H	OH	H	H
XV-43-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	Bz	F	F	H	OH	H	H
XV-43-5	ⁱ Pr	H	H	CH ₂ Ph	Bz	F	F	H	OH	H	H
XV-43-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	Bz	F	F	H	OH	H	H
XV-43-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	Bz	F	F	H	OH	H	H
XV-43-8	ⁱ Pr	*	H	*	Bz	F	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XV-44

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-44-1	^t Bu	H	H	H	Bz	F	F	H	OH	H	H
XV-44-2	^t Bu	H	H	CH ₃	Bz	F	F	H	OH	H	H
XV-44-3	^t Bu	H	H	CH(CH ₃) ₂	Bz	F	F	H	OH	H	H
XV-44-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	Bz	F	F	H	OH	H	H

342

TABLE XV-44-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-44-5	^t Bu	H	H	CH ₂ Ph	Bz	F	F	H	OH	H	H
XV-44-6	^t Bu	H	H	CH ₂ -indol-3-yl	Bz	F	F	H	OH	H	H
XV-44-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	Bz	F	F	H	OH	H	H
XV-44-8	^t Bu	*	H	*	Bz	F	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XV-45

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-45-1	Ph	H	H	H	Bz	F	F	H	OH	H	H
XV-45-2	Ph	H	H	CH ₃	Bz	F	F	H	OH	H	H
XV-45-3	Ph	H	H	CH(CH ₃) ₂	Bz	F	F	H	OH	H	H
XV-45-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	F	F	H	OH	H	H
XV-45-5	Ph	H	H	CH ₂ Ph	Bz	F	F	H	OH	H	H
XV-45-6	Ph	H	H	CH ₂ -indol-3-yl	Bz	F	F	H	OH	H	H
XV-45-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	F	F	H	OH	H	H
XV-45-8	Ph	*	H	*	Bz	F	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XV-46

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-46-1	p-Me-Ph	H	H	H	Bz	F	F	H	OH	H	H
XV-46-2	p-Me-Ph	H	H	CH ₃	Bz	F	F	H	OH	H	H
XV-46-3	p-Me-Ph	H	H	CH(CH ₃) ₂	Bz	F	F	H	OH	H	H
XV-46-4	p-Me-Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	F	F	H	OH	H	H
XV-46-5	p-Me-Ph	H	H	CH ₂ Ph	Bz	F	F	H	OH	H	H
XV-46-6	p-Me-Ph	H	H	CH ₂ -indol-3-yl	Bz	F	F	H	OH	H	H
XV-46-7	p-Me-Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	F	F	H	OH	H	H
XV-46-8	p-Me-Ph	*	H	*	Bz	F	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XV-47

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-47-1	p-F-Ph	H	H	H	Bz	F	F	H	OH	H	H
XV-47-2	p-F-Ph	H	H	CH ₃	Bz	F	F	H	OH	H	H
XV-47-3	p-F-Ph	H	H	CH(CH ₃) ₂	Bz	F	F	H	OH	H	H
XV-47-4	p-F-Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	F	F	H	OH	H	H
XV-47-5	p-F-Ph	H	H	CH ₂ Ph	Bz	F	F	H	OH	H	H
XV-47-6	p-F-Ph	H	H	CH ₂ -indol-3-yl	Bz	F	F	H	OH	H	H
XV-47-7	p-F-Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	F	F	H	OH	H	H
XV-47-8	p-F-Ph	*	H	*	Bz	F	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XV-48

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-48-1	p-Cl-Ph	H	H	H	Bz	F	F	H	OH	H	H
XV-48-2	p-Cl-Ph	H	H	CH ₃	Bz	F	F	H	OH	H	H

TABLE XV-48-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-48-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	Bz	F	F	H	OH	H	H
XV-48-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	F	F	H	OH	H	H
XV-48-5	p-Cl—Ph	H	H	CH ₂ Ph	Bz	F	F	H	OH	H	H
XV-48-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	Bz	F	F	H	OH	H	H
XV-48-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	F	F	H	OH	H	H
XV-48-8	p-Cl—Ph	*	H	*	Bz	F	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XV-49

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-49-1	p-Br—Ph	H	H	H	Bz	F	F	H	OH	H	H
XV-49-2	p-Br—Ph	H	H	CH ₃	Bz	F	F	H	OH	H	H
XV-49-3	p-Br—Ph	H	H	CH(CH ₃) ₂	Bz	F	F	H	OH	H	H
XV-49-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	F	F	H	OH	H	H
XV-49-5	p-Br—Ph	H	H	CH ₂ Ph	Bz	F	F	H	OH	H	H
XV-49-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	Bz	F	F	H	OH	H	H
XV-49-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	F	F	H	OH	H	H
XV-49-8	p-Br—Ph	*	H	*	Bz	F	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XV-50

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XV-50-1	p-I—Ph	H	H	H	Bz	F	F	H	OH	H	H
XV-50-2	p-I—Ph	H	H	CH ₃	Bz	F	F	H	OH	H	H
XV-50-3	p-I—Ph	H	H	CH(CH ₃) ₂	Bz	F	F	H	OH	H	H
XV-50-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	F	F	H	OH	H	H
XV-50-5	p-I—Ph	H	H	CH ₂ Ph	Bz	F	F	H	OH	H	H
XV-50-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	Bz	F	F	H	OH	H	H
XV-50-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	F	F	H	OH	H	H
XV-50-8	p-I—Ph	*	H	*	Bz	F	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

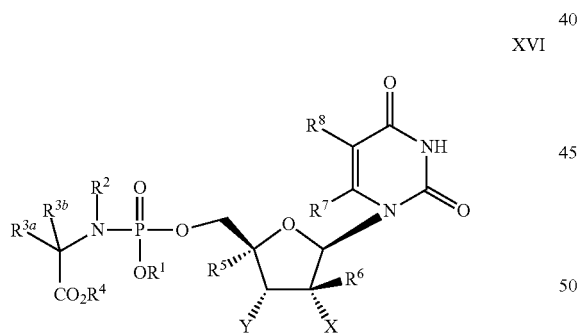


TABLE XVI-1

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVI-1-1	CH ₃	H	H	H	CH ₃	F	F	F	OH	H	H
XVI-1-2	CH ₃	H	H	CH ₃	CH ₃	F	F	F	OH	H	H
XVI-1-3	CH ₃	H	H	CH(CH ₃) ₂	CH ₃	F	F	F	OH	H	H
XVI-1-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	F	F	F	OH	H	H
XVI-1-5	CH ₃	H	H	CH ₂ Ph	CH ₃	F	F	F	OH	H	H
XVI-1-6	CH ₃	H	H	CH ₂ -indol-3-yl	CH ₃	F	F	F	OH	H	H
XVI-1-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	F	F	F	OH	H	H
XVI-1-8	CH ₃	*	H	*	CH ₃	F	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

345

TABLE XVI-2

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVI-2-1	Et	H	H	H	CH ₃	F	F	F	OH	H	H
XVI-2-2	Et	H	H	CH ₃	CH ₃	F	F	F	OH	H	H
XVI-2-3	Et	H	H	CH(CH ₃) ₂	CH ₃	F	F	F	OH	H	H
XVI-2-4	Et	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	F	F	F	OH	H	H
XVI-2-5	Et	H	H	CH ₂ Ph	CH ₃	F	F	F	OH	H	H
XVI-2-6	Et	H	H	CH ₂ -indol-3-yl	CH ₃	F	F	F	OH	H	H
XVI-2-7	Et	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	F	F	F	OH	H	H
XVI-2-8	Et	*	H	*	CH ₃	F	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

346

TABLE XVI-4

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVI-4-1	'Bu	H	H	H	CH ₃	F	F	F	OH	H	H
XVI-4-2	'Bu	H	H	CH ₃	CH ₃	F	F	F	OH	H	H
XVI-4-3	'Bu	H	H	CH(CH ₃) ₂	CH ₃	F	F	F	OH	H	H
XVI-4-4	'Bu	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	F	F	F	OH	H	H
XVI-4-5	'Bu	H	H	CH ₂ Ph	CH ₃	F	F	F	OH	H	H
XVI-4-6	'Bu	H	H	CH ₂ -indol-3-yl	CH ₃	F	F	F	OH	H	H
XVI-4-7	'Bu	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	F	F	F	OH	H	H
XVI-4-8	'Bu	*	H	*	CH ₃	F	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVI-3

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVI-3-1	ⁱ Pr	H	H	H	CH ₃	F	F	F	OH	H	H
XVI-3-2	ⁱ Pr	H	H	CH ₃	CH ₃	F	F	F	OH	H	H
XVI-3-3	ⁱ Pr	H	H	CH(CH ₃) ₂	CH ₃	F	F	F	OH	H	H
XVI-3-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	F	F	F	OH	H	H
XVI-3-5	ⁱ Pr	H	H	CH ₂ Ph	CH ₃	F	F	F	OH	H	H
XVI-3-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	CH ₃	F	F	F	OH	H	H
XVI-3-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	F	F	F	OH	H	H
XVI-3-8	ⁱ Pr	*	H	*	CH ₃	F	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVI-5

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVI-5-1	Ph	H	H	H	CH ₃	F	F	F	OH	H	H
XVI-5-2	Ph	H	H	CH ₃	CH ₃	F	F	F	OH	H	H
XVI-5-3	Ph	H	H	CH(CH ₃) ₂	CH ₃	F	F	F	OH	H	H
XVI-5-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	F	F	F	OH	H	H
XVI-5-5	Ph	H	H	CH ₂ Ph	CH ₃	F	F	F	OH	H	H
XVI-5-6	Ph	H	H	CH ₂ -indol-3-yl	CH ₃	F	F	F	OH	H	H
XVI-5-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	F	F	F	OH	H	H
XVI-5-8	Ph	*	H	*	CH ₃	F	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVI-6

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVI-6-1	p-Me—Ph	H	H	H	CH ₃	F	F	F	OH	H	H
XVI-6-2	p-Me—Ph	H	H	CH ₃	CH ₃	F	F	F	OH	H	H
XVI-6-3	p-Me—Ph	H	H	CH(CH ₃) ₂	CH ₃	F	F	F	OH	H	H
XVI-6-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	F	F	F	OH	H	H
XVI-6-5	p-Me—Ph	H	H	CH ₂ Ph	CH ₃	F	F	F	OH	H	H
XVI-6-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	F	F	F	OH	H	H
XVI-6-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	F	F	F	OH	H	H
XVI-6-8	p-Me—Ph	*	H	*	CH ₃	F	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVI-7

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVI-7-1	p-F—Ph	H	H	H	CH ₃	F	F	F	OH	H	H
XVI-7-2	p-F—Ph	H	H	CH ₃	CH ₃	F	F	F	OH	H	H
XVI-7-3	p-F—Ph	H	H	CH(CH ₃) ₂	CH ₃	F	F	F	OH	H	H
XVI-7-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	F	F	F	OH	H	H
XVI-7-6	p-F—Ph	H	H	CH ₂ Ph	CH ₃	F	F	F	OH	H	H
XVI-7-7	p-F—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	F	F	F	OH	H	H
XVI-7-8	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	F	F	F	OH	H	H
XVI-7-20	p-F—Ph	*	H	*	CH ₃	F	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVI-8

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVI-8-1	p-Cl—Ph	H	H	H	CH ₃	F	F	F	OH	H	H
XVI-8-2	p-Cl—Ph	H	H	CH ₃	CH ₃	F	F	F	OH	H	H
XVI-8-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	CH ₃	F	F	F	OH	H	H
XVI-8-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	F	F	F	OH	H	H
XVI-8-5	p-Cl—Ph	H	H	CH ₂ Ph	CH ₃	F	F	F	OH	H	H
XVI-8-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	F	F	F	OH	H	H
XVI-8-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	F	F	F	OH	H	H
XVI-8-8	p-Cl—Ph	*	H	*	CH ₃	F	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVI-9

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVI-9-1	p-Br-Ph	H	H	H	CH ₃	F	F	F	OH	H	H
XVI-9-2	p-Br-Ph	H	H	CH ₃	CH ₃	F	F	F	OH	H	H
XVI-9-3	p-Br-Ph	H	H	CH(CH ₃) ₂	CH ₃	F	F	F	OH	H	H
XVI-9-4	p-Br-Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	F	F	F	OH	H	H
XVI-9-6	p-Br-Ph	H	H	CH ₂ Ph	CH ₃	F	F	F	OH	H	H
XVI-9-7	p-Br-Ph	H	H	CH ₂ -indol-3-yl	CH ₃	F	F	F	OH	H	H
XVI-9-8	p-Br-Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	F	F	F	OH	H	H
XVI-9-20	p-Br-Ph	*	H	*	CH ₃	F	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVI-10

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVI-10-1	p-I-Ph	H	H	H	CH ₃	F	F	F	OH	H	H
XVI-10-2	p-I-Ph	H	H	CH ₃	CH ₃	F	F	F	OH	H	H
XVI-10-3	p-I-Ph	H	H	CH(CH ₃) ₂	CH ₃	F	F	F	OH	H	H
XVI-10-4	p-I-Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	F	F	F	OH	H	H
XVI-10-5	p-I-Ph	H	H	CH ₂ Ph	CH ₃	F	F	F	OH	H	H
XVI-10-6	p-I-Ph	H	H	CH ₂ -indol-3-yl	CH ₃	F	F	F	OH	H	H
XVI-10-7	p-I-Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	F	F	F	OH	H	H
XVI-10-8	p-I-Ph	*	H	*	CH ₃	F	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVI-11

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVI-11-1	CH ₃	H	H	H	Et	F	F	F	OH	H	H
XVI-11-2	CH ₃	H	H	CH ₃	Et	F	F	F	OH	H	H
XVI-11-3	CH ₃	H	H	CH(CH ₃) ₂	Et	F	F	F	OH	H	H
XVI-11-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	Et	F	F	F	OH	H	H
XVI-11-5	CH ₃	H	H	CH ₂ Ph	Et	F	F	F	OH	H	H
XVI-11-6	CH ₃	H	H	CH ₂ -indol-3-yl	Et	F	F	F	OH	H	H
XVI-11-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	Et	F	F	F	OH	H	H
XVI-11-8	CH ₃	*	H	*	Et	F	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

40

TABLE XVI-12

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVI-12-1	Et	H	H	H	Et	F	F	F	OH	H	H
XVI-12-2	Et	H	H	CH ₃	Et	F	F	F	OH	H	H
XVI-12-3	Et	H	H	CH(CH ₃) ₂	Et	F	F	F	OH	H	H
XVI-12-4	Et	H	H	CH ₂ CH(CH ₃) ₂	Et	F	F	F	OH	H	H
XVI-12-5	Et	H	H	CH ₂ Ph	Et	F	F	F	OH	H	H
XVI-12-6	Et	H	H	CH ₂ -indol-3-yl	Et	F	F	F	OH	H	H
XVI-12-7	Et	H	H	CH ₂ CH ₂ SCH ₃	Et	F	F	F	OH	H	H
XVI-12-8	Et	*	H	*	Et	F	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVI-13

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVI-13-1	ⁱ Pr	H	H	H	Et	F	F	F	OH	H	H

TABLE XVI-13-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
45 XVI-13-2	ⁱ Pr	H	H	CH ₃	Et	F	F	F	OH	H	H
XVI-13-3	ⁱ Pr	H	H	CH(CH ₃) ₂	Et	F	F	F	OH	H	H
XVI-13-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	Et	F	F	F	OH	H	H
50 XVI-13-5	ⁱ Pr	H	H	CH ₂ Ph	Et	F	F	F	OH	H	H
XVI-13-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	Et	F	F	F	OH	H	H
XVI-13-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	Et	F	F	F	OH	H	H
55 XVI-13-8	ⁱ Pr	*	H	*	Et	F	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

60

TABLE XVI-14

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVI-14-1	^t Bu	H	H	H	Et	F	F	F	OH	H	H
XVI-14-2	^t Bu	H	H	CH ₃	Et	F	F	F	OH	H	H
65 XVI-14-3	^t Bu	H	H	CH(CH ₃) ₂	Et	F	F	F	OH	H	H

349

TABLE XVI-14-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVI-14-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	Et	F	F	F	OH	H	H
XVI-14-5	^t Bu	H	H	CH ₂ Ph	Et	F	F	F	OH	H	H
XVI-14-6	^t Bu	H	H	CH ₂ -indol-3-yl	Et	F	F	F	OH	H	H
XVI-14-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	Et	F	F	F	OH	H	H
XVI-14-8	^t Bu	*	H	*	Et	F	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

350

TABLE XVI-15

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVI-15-1	Ph	H	H	H	Et	F	F	F	OH	H	H
XVI-15-2	Ph	H	H	CH ₃	Et	F	F	F	OH	H	H
XVI-15-3	Ph	H	H	CH(CH ₃) ₂	Et	F	F	F	OH	H	H
XVI-15-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	F	F	F	OH	H	H
XVI-15-5	Ph	H	H	CH ₂ Ph	Et	F	F	F	OH	H	H
XVI-15-6	Ph	H	H	CH ₂ -indol-3-yl	Et	F	F	F	OH	H	H
XVI-15-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	F	F	F	OH	H	H
XVI-15-8	Ph	*	H	*	Et	F	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVI-16

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVI-16-1	p-Me—Ph	H	H	H	Et	F	F	F	OH	H	H
XVI-16-2	p-Me—Ph	H	H	CH ₃	Et	F	F	F	OH	H	H
XVI-16-3	p-Me—Ph	H	H	CH(CH ₃) ₂	Et	F	F	F	OH	H	H
XVI-16-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	F	F	F	OH	H	H
XVI-16-5	p-Me—Ph	H	H	CH ₂ Ph	Et	F	F	F	OH	H	H
XVI-16-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	Et	F	F	F	OH	H	H
XVI-16-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	F	F	F	OH	H	H
XVI-16-8	p-Me—Ph	*	H	*	Et	F	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVI-17

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVI-17-1	p-F—Ph	H	H	H	Et	F	F	F	OH	H	H
XVI-17-2	p-F—Ph	H	H	CH ₃	Et	F	F	F	OH	H	H
XVI-17-3	p-F—Ph	H	H	CH(CH ₃) ₂	Et	F	F	F	OH	H	H
XVI-17-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	F	F	F	OH	H	H
XVI-17-5	p-F—Ph	H	H	CH ₂ Ph	Et	F	F	F	OH	H	H
XVI-17-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	Et	F	F	F	OH	H	H
XVI-17-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	F	F	F	OH	H	H
XVI-17-8	p-F—Ph	*	H	*	Et	F	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVI-18

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVI-18-1	p-Cl—Ph	H	H	H	Et	F	F	F	OH	H	H
XVI-18-2	p-Cl—Ph	H	H	CH ₃	Et	F	F	F	OH	H	H
XVI-18-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	Et	F	F	F	OH	H	H
XVI-18-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	F	F	F	OH	H	H
XVI-18-5	p-Cl—Ph	H	H	CH ₂ Ph	Et	F	F	F	OH	H	H
XVI-18-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	Et	F	F	F	OH	H	H
XVI-18-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	F	F	F	OH	H	H
XVI-18-8	p-Cl—Ph	*	H	*	Et	F	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVI-19

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVI-19-1	p-Br—Ph	H	H	H	Et	F	F	F	OH	H	H
XVI-19-2	p-Br—Ph	H	H	CH ₃	Et	F	F	F	OH	H	H
XVI-19-3	p-Br—Ph	H	H	CH(CH ₃) ₂	Et	F	F	F	OH	H	H
XVI-19-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	F	F	F	OH	H	H
XVI-19-5	p-Br—Ph	H	H	CH ₂ Ph	Et	F	F	F	OH	H	H
XVI-19-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	Et	F	F	F	OH	H	H
XVI-19-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	F	F	F	OH	H	H
XVI-19-8	p-Br—Ph	*	H	*	Et	F	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVI-20

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷
XVI-20-1	p-I—Ph	H	H	H	Et	F	F	F	OH	H
XVI-20-2	p-I—Ph	H	H	CH ₃	Et	F	F	F	OH	H
XVI-20-3	p-I—Ph	H	H	CH(CH ₃) ₂	Et	F	F	F	OH	H
XVI-20-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	F	F	F	OH	H
XVI-20-5	p-I—Ph	H	H	CH ₂ Ph	Et	F	F	F	OH	H
XVI-20-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	Et	F	F	F	OH	H
XVI-20-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	F	F	F	OH	H
XVI-20-8	p-I—Ph	*	H	*	Et	F	F	F	OH	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVI-23

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVI-23-1	ⁱ Pr	H	H	H	ⁱ Pr	F	F	F	OH	H	H
XVI-23-2	ⁱ Pr	H	H	CH ₃	ⁱ Pr	F	F	F	OH	H	H
XVI-23-3	ⁱ Pr	H	H	CH(CH ₃) ₂	ⁱ Pr	F	F	F	OH	H	H
XVI-23-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	F	F	F	OH	H	H
XVI-23-5	ⁱ Pr	H	H	CH ₂ Ph	ⁱ Pr	F	F	F	OH	H	H
XVI-23-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	ⁱ Pr	F	F	F	OH	H	H
XVI-23-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	F	F	F	OH	H	H
XVI-23-8	ⁱ Pr	*	H	*	ⁱ Pr	F	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVI-21

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVI-21-1	CH ₃	H	H	H	ⁱ Pr	F	F	F	OH	H	H
XVI-21-2	CH ₃	H	H	CH ₃	ⁱ Pr	F	F	F	OH	H	H
XVI-21-3	CH ₃	H	H	CH(CH ₃) ₂	ⁱ Pr	F	F	F	OH	H	H
XVI-21-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	F	F	F	OH	H	H
XVI-21-5	CH ₃	H	H	CH ₂ Ph	ⁱ Pr	F	F	F	OH	H	H
XVI-21-6	CH ₃	H	H	CH ₂ -indol-3-yl	ⁱ Pr	F	F	F	OH	H	H
XVI-21-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	F	F	F	OH	H	H
XVI-21-8	CH ₃	*	H	*	ⁱ Pr	F	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVI-22

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVI-22-1	Et	H	H	H	ⁱ Pr	F	F	F	OH	H	H
XVI-22-2	Et	H	H	CH ₃	ⁱ Pr	F	F	F	OH	H	H
XVI-22-3	Et	H	H	CH(CH ₃) ₂	ⁱ Pr	F	F	F	OH	H	H
XVI-22-4	Et	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	F	F	F	OH	H	H
XVI-22-5	Et	H	H	CH ₂ Ph	ⁱ Pr	F	F	F	OH	H	H
XVI-22-6	Et	H	H	CH ₂ -indol-3-yl	ⁱ Pr	F	F	F	OH	H	H
XVI-22-7	Et	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	F	F	F	OH	H	H
XVI-22-8	Et	*	H	*	ⁱ Pr	F	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVI-24

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVI-24-1	^t Bu	H	H	H	ⁱ Pr	F	F	F	OH	H	H
XVI-24-2	^t Bu	H	H	CH ₃	ⁱ Pr	F	F	F	OH	H	H
XVI-24-3	^t Bu	H	H	CH(CH ₃) ₂	ⁱ Pr	F	F	F	OH	H	H
XVI-24-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	F	F	F	OH	H	H
XVI-24-5	^t Bu	H	H	CH ₂ Ph	ⁱ Pr	F	F	F	OH	H	H
XVI-24-6	^t Bu	H	H	CH ₂ -indol-3-yl	ⁱ Pr	F	F	F	OH	H	H
XVI-24-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	F	F	F	OH	H	H
XVI-24-8	^t Bu	*	H	*	ⁱ Pr	F	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

353

TABLE XVI-25

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVI-25-1	Ph	H	H	H	ⁱ Pr	F	F	F	OH	H	H
XVI-25-2	Ph	H	H	CH ₃	ⁱ Pr	F	F	F	OH	H	H
XVI-25-3	Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	F	F	F	OH	H	H
XVI-25-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	F	F	F	OH	H	H

354

TABLE XVI-25-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVI-25-5	Ph	H	H	CH ₂ Ph	ⁱ Pr	F	F	F	OH	H	H
XVI-25-6	Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	F	F	F	OH	H	H
XVI-25-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	F	F	F	OH	H	H
XVI-25-8	Ph	*	H	*	ⁱ Pr	F	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVI-26

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVI-26-1	p-Me—Ph	H	H	H	ⁱ Pr	F	F	F	OH	H	H
XVI-26-2	p-Me—Ph	H	H	CH ₃	ⁱ Pr	F	F	F	OH	H	H
XVI-26-3	p-Me—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	F	F	F	OH	H	H
XVI-26-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	F	F	F	OH	H	H
XVI-26-5	p-Me—Ph	H	H	CH ₂ Ph	ⁱ Pr	F	F	F	OH	H	H
XVI-26-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	F	F	F	OH	H	H
XVI-26-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	F	F	F	OH	H	H
XVI-26-8	p-Me—Ph	*	H	*	ⁱ Pr	F	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVI-27

No	R ¹	R ²	R ^{3a}	R ^{4b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVI-27-1	p-F—Ph	H	H	H	ⁱ Pr	F	F	F	OH	H	H
XVI-27-2	p-F—Ph	H	H	CH ₃	ⁱ Pr	F	F	F	OH	H	H
XVI-27-3	p-F—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	F	F	F	OH	H	H
XVI-27-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	F	F	F	OH	H	H
XVI-27-5	p-F—Ph	H	H	CH ₂ Ph	ⁱ Pr	F	F	F	OH	H	H
XVI-27-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	F	F	F	OH	H	H
XVI-27-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	F	F	F	OH	H	H
XVI-27-8	p-F—Ph	*	H	*	ⁱ Pr	F	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVI-28

No	R ¹	R ²	R ^{3a}	R ^{4b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVI-28-1	p-Cl—Ph	H	H	H	ⁱ Pr	F	F	F	OH	H	H
XVI-28-2	p-Cl—Ph	H	H	CH ₃	ⁱ Pr	F	F	F	OH	H	H
XVI-28-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	F	F	F	OH	H	H
XVI-28-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	F	F	F	OH	H	H
XVI-28-5	p-Cl—Ph	H	H	CH ₂ Ph	ⁱ Pr	F	F	F	OH	H	H
XVI-28-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	F	F	F	OH	H	H
XVI-28-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	F	F	F	OH	H	H
XVI-28-8	p-Cl—Ph	*	H	*	ⁱ Pr	F	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVI-29

No	R ¹	R ²	R ^{3a}	R ^{4b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVI-29-1	p-Br—Ph	H	H	H	ⁱ Pr	F	F	F	OH	H	H
XVI-29-2	p-Br—Ph	H	H	CH ₃	ⁱ Pr	F	F	F	OH	H	H
XVI-29-3	p-Br—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	F	F	F	OH	H	H
XVI-29-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	F	F	F	OH	H	H
XVI-29-5	p-Br—Ph	H	H	CH ₂ Ph	ⁱ Pr	F	F	F	OH	H	H
XVI-29-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	F	F	F	OH	H	H
XVI-29-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	F	F	F	OH	H	H
XVI-29-8	p-Br—Ph	*	H	*	ⁱ Pr	F	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVI-30

No	R ¹	R ²	R ^{3a}	R ^{4b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVI-30-1	p-I—Ph	H	H	H	ⁱ Pr	F	F	F	OH	H	H
XVI-30-2	p-I—Ph	H	H	CH ₃	ⁱ Pr	F	F	F	OH	H	H
XVI-30-3	p-I—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	F	F	F	OH	H	H
XVI-30-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	F	F	F	OH	H	H
XVI-30-5	p-I—Ph	H	H	CH ₂ Ph	ⁱ Pr	F	F	F	OH	H	H
XVI-30-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	F	F	F	OH	H	H
XVI-30-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	F	F	F	OH	H	H
XVI-30-8	p-I—Ph	*	H	*	ⁱ Pr	F	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVI-31

No	R ¹	R ²	R ^{3a}	R ^{4b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVI-31-1	CH ₃	H	H	H	ⁿ Bu	F	F	F	OH	H	H
XVI-31-2	CH ₃	H	H	CH ₃	ⁿ Bu	F	F	F	OH	H	H
XVI-31-3	CH ₃	H	H	CH(CH ₃) ₂	ⁿ Bu	F	F	F	OH	H	H
XVI-31-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	F	F	F	OH	H	H
XVI-31-5	CH ₃	H	H	CH ₂ Ph	ⁿ Bu	F	F	F	OH	H	H
XVI-31-6	CH ₃	H	H	CH ₂ -indol-3-yl	ⁿ Bu	F	F	F	OH	H	H
XVI-31-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	F	F	F	OH	H	H
XVI-31-8	CH ₃	*	H	*	ⁿ Bu	F	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVI-32

No	R ¹	R ²	R ^{3a}	R ^{4b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVI-32-1	Et	H	H	H	ⁿ Bu	F	F	F	OH	H	H
XVI-32-2	Et	H	H	CH ₃	ⁿ Bu	F	F	F	OH	H	H
XVI-32-3	Et	H	H	CH(CH ₃) ₂	ⁿ Bu	F	F	F	OH	H	H
XVI-32-4	Et	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	F	F	F	OH	H	H

TABLE XVI-32-continued

No	R ¹	R ²	R ^{3a}	R ^{4b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
30 XVI-32-5	Et	H	H	CH ₂ Ph	ⁿ Bu	F	F	F	OH	H	H
XVI-32-6	Et	H	H	CH ₂ -indol-3-yl	ⁿ Bu	F	F	F	OH	H	H
XVI-32-7	Et	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	F	F	F	OH	H	H
35 XVI-32-8	Et	*	H	*	ⁿ Bu	F	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVI-33

No	R ¹	R ²	R ^{3a}	R ^{4b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVI-33-1	ⁱ Pr	H	H	H	ⁿ Bu	F	F	F	OH	H	H
XVI-33-2	ⁱ Pr	H	H	CH ₃	ⁿ Bu	F	F	F	OH	H	H
XVI-33-3	ⁱ Pr	H	H	CH(CH ₃) ₂	ⁿ Bu	F	F	F	OH	H	H
XVI-33-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	F	F	F	OH	H	H
XVI-33-5	ⁱ Pr	H	H	CH ₂ Ph	ⁿ Bu	F	F	F	OH	H	H
XVI-33-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	ⁿ Bu	F	F	F	OH	H	H
XVI-33-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	F	F	F	OH	H	H
XVI-33-8	ⁱ Pr	*	H	*	ⁿ Bu	F	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVI-34

No	R ¹	R ²	R ^{3a}	R ^{4b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVI-34-1	ⁿ Bu	H	H	H	ⁿ Bu	F	F	F	OH	H	H
XVI-34-2	ⁿ Bu	H	H	CH ₃	ⁿ Bu	F	F	F	OH	H	H
XVI-34-3	ⁿ Bu	H	H	CH(CH ₃) ₂	ⁿ Bu	F	F	F	OH	H	H
XVI-34-4	ⁿ Bu	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	F	F	F	OH	H	H
XVI-34-5	ⁿ Bu	H	H	CH ₂ Ph	ⁿ Bu	F	F	F	OH	H	H
XVI-34-6	ⁿ Bu	H	H	CH ₂ -indol-3-yl	ⁿ Bu	F	F	F	OH	H	H
XVI-34-7	ⁿ Bu	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	F	F	F	OH	H	H
XVI-34-8	ⁿ Bu	*	H	*	ⁿ Bu	F	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

357

TABLE XVI-35

No	R ¹	R ²	R ^{3a}	R ^{4b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVI-35-1	Ph	H	H	H	"Bu	F	F	F	OH	H	H
XVI-35-2	Ph	H	H	CH ₃	"Bu	F	F	F	OH	H	H
XVI-35-3	Ph	H	H	CH(CH ₃) ₂	"Bu	F	F	F	OH	H	H
XVI-35-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	F	F	F	OH	H	H

358

TABLE XVI-35-continued

No	R ¹	R ²	R ^{3a}	R ^{4b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVI-35-5	Ph	H	H	CH ₂ Ph	"Bu	F	F	F	OH	H	H
XVI-35-6	Ph	H	H	CH ₂ -indol-3-yl	"Bu	F	F	F	OH	H	H
XVI-35-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	F	F	F	OH	H	H
XVI-35-8	Ph	*	H	*	"Bu	F	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVI-36

No	R ¹	R ²	R ^{3a}	R ^{4b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVI-36-1	p-Me—Ph	H	H	H	"Bu	F	F	F	OH	H	H
XVI-36-2	p-Me—Ph	H	H	CH ₃	"Bu	F	F	F	OH	H	H
XVI-36-3	p-Me—Ph	H	H	CH(CH ₃) ₂	"Bu	F	F	F	OH	H	H
XVI-36-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	F	F	F	OH	H	H
XVI-36-5	p-Me—Ph	H	H	CH ₂ Ph	"Bu	F	F	F	OH	H	H
XVI-36-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	"Bu	F	F	F	OH	H	H
XVI-36-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	F	F	F	OH	H	H
XVI-36-8	p-Me—Ph	*	H	*	"Bu	F	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVI-37

No	R ¹	R ²	R ^{3a}	R ^{4b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVI-37-1	p-F—Ph	H	H	H	"Bu	F	F	F	OH	H	H
XVI-37-2	p-F—Ph	H	H	CH ₃	"Bu	F	F	F	OH	H	H
XVI-37-3	p-F—Ph	H	H	CH(CH ₃) ₂	"Bu	F	F	F	OH	H	H
XVI-37-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	F	F	F	OH	H	H
XVI-37-5	p-F—Ph	H	H	CH ₂ Ph	"Bu	F	F	F	OH	H	H
XVI-37-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	"Bu	F	F	F	OH	H	H
XVI-37-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	F	F	F	OH	H	H
XVI-37-8	p-F—Ph	*	H	*	"Bu	F	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVI-38

No	R ¹	R ²	R ^{3a}	R ^{4b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVI-38-1	p-Cl—Ph	H	H	H	"Bu	F	F	F	OH	H	H
XVI-38-2	p-Cl—Ph	H	H	CH ₃	"Bu	F	F	F	OH	H	H
XVI-38-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	"Bu	F	F	F	OH	H	H
XVI-38-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	F	F	F	OH	H	H
XVI-38-5	p-Cl—Ph	H	H	CH ₂ Ph	"Bu	F	F	F	OH	H	H
XVI-38-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	"Bu	F	F	F	OH	H	H
XVI-38-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	F	F	F	OH	H	H
XVI-38-8	p-Cl—Ph	*	H	*	"Bu	F	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVI-39

No	R ¹	R ²	R ^{3a}	R ^{4b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVI-39-1	p-Br—Ph	H	H	H	"Bu	F	F	F	OH	H	H
XVI-39-2	p-Br—Ph	H	H	CH ₃	"Bu	F	F	F	OH	H	H
XVI-39-3	p-Br—Ph	H	H	CH(CH ₃) ₂	"Bu	F	F	F	OH	H	H
XVI-39-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	F	F	F	OH	H	H
XVI-39-5	p-Br—Ph	H	H	CH ₂ Ph	"Bu	F	F	F	OH	H	H
XVI-39-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	"Bu	F	F	F	OH	H	H
XVI-39-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	F	F	F	OH	H	H
XVI-39-8	p-Br—Ph	*	H	*	"Bu	F	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVI-40

No	R ¹	R ²	R ^{3a}	R ^{4b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVI-40-1	p-I—Ph	H	H	H	"Bu	F	F	F	OH	H	H
XVI-40-2	p-I—Ph	H	H	CH ₃	"Bu	F	F	F	OH	H	H
XVI-40-3	p-I—Ph	H	H	CH(CH ₃) ₂	"Bu	F	F	F	OH	H	H
XVI-40-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	F	F	F	OH	H	H
XVI-40-5	p-I—Ph	H	H	CH ₂ Ph	"Bu	F	F	F	OH	H	H
XVI-40-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	"Bu	F	F	F	OH	H	H
XVI-40-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	F	F	F	OH	H	H
XVI-40-8	p-I—Ph	*	H	*	"Bu	F	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVI-41

No	R ¹	R ²	R ^{3a}	R ^{4b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVI-41-1	CH ₃	H	H	H	Bz	F	F	F	OH	H	H
XVI-41-2	CH ₃	H	H	CH ₃	Bz	F	F	F	OH	H	H
XVI-41-3	CH ₃	H	H	CH(CH ₃) ₂	Bz	F	F	F	OH	H	H
XVI-41-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	Bz	F	F	F	OH	H	H
XVI-41-5	CH ₃	H	H	CH ₂ Ph	Bz	F	F	F	OH	H	H
XVI-41-6	CH ₃	H	H	CH ₂ -indol-3-yl	Bz	F	F	F	OH	H	H
XVI-41-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	Bz	F	F	F	OH	H	H
XVI-41-8	CH ₃	*	H	*	Bz	F	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVI-42

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVI-42-1	Et	H	H	H	Bz	F	F	F	OH	H	H
XVI-42-2	Et	H	H	CH ₃	Bz	F	F	F	OH	H	H
XVI-42-3	Et	H	H	CH(CH ₃) ₂	Bz	F	F	F	OH	H	H
XVI-42-4	Et	H	H	CH ₂ CH(CH ₃) ₂	Bz	F	F	F	OH	H	H
XVI-42-5	Et	H	H	CH ₂ Ph	Bz	F	F	F	OH	H	H
XVI-42-6	Et	H	H	CH ₂ -indol-3-yl	Bz	F	F	F	OH	H	H
XVI-42-7	Et	H	H	CH ₂ CH ₂ SCH ₃	Bz	F	F	F	OH	H	H
XVI-42-8	Et	*	H	*	Bz	F	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVI-44

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
30 XVI-44-1	'Bu	H	H	H	Bz	F	F	F	OH	H	H
XVI-44-2	'Bu	H	H	CH ₃	Bz	F	F	F	OH	H	H
35 XVI-44-3	'Bu	H	H	CH(CH ₃) ₂	Bz	F	F	F	OH	H	H
XVI-44-4	'Bu	H	H	CH ₂ CH(CH ₃) ₂	Bz	F	F	F	OH	H	H
XVI-44-5	'Bu	H	H	CH ₂ Ph	Bz	F	F	F	OH	H	H
40 XVI-44-6	'Bu	H	H	CH ₂ -indol-3-yl	Bz	F	F	F	OH	H	H
XVI-44-7	'Bu	H	H	CH ₂ CH ₂ SCH ₃	Bz	F	F	F	OH	H	H
45 XVI-44-8	'Bu	*	H	*	Bz	F	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVI-43

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVI-43-1	ⁱ Pr	H	H	H	Bz	F	F	F	OH	H	H
XVI-43-2	ⁱ Pr	H	H	CH ₃	Bz	F	F	F	OH	H	H
XVI-43-3	ⁱ Pr	H	H	CH(CH ₃) ₂	Bz	F	F	F	OH	H	H
XVI-43-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	Bz	F	F	F	OH	H	H
XVI-43-5	ⁱ Pr	H	H	CH ₂ Ph	Bz	F	F	F	OH	H	H
XVI-43-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	Bz	F	F	F	OH	H	H
XVI-43-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	Bz	F	F	F	OH	H	H
XVI-43-8	ⁱ Pr	*	H	*	Bz	F	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVI-45

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
50 XVII-45-1	Ph	H	H	H	Bz	F	F	F	OH	H	H
XVII-45-2	Ph	H	H	CH ₃	Bz	F	F	F	OH	H	H
55 XVII-45-3	Ph	H	H	CH(CH ₃) ₂	Bz	F	F	F	OH	H	H
XVII-45-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	F	F	F	OH	H	H
XVII-45-5	Ph	H	H	CH ₂ Ph	Bz	F	F	F	OH	H	H
60 XVII-45-6	Ph	H	H	CH ₂ -indol-3-yl	Bz	F	F	F	OH	H	H
XVII-45-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	F	F	F	OH	H	H
65 XVII-45-8	Ph	*	H	*	Bz	F	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

361

TABLE XVI-46

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVII-46-1	p-Me—Ph	H	H	H	Bz	F	F	F	OH	H	H
XVII-46-2	p-Me—Ph	H	H	CH ₃	Bz	F	F	F	OH	H	H
XVII-46-3	p-Me—Ph	H	H	CH(CH ₃) ₂	Bz	F	F	F	OH	H	H
XVII-46-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	F	F	F	OH	H	H
XVII-46-5	p-Me—Ph	H	H	CH ₂ Ph	Bz	F	F	F	OH	H	H
XVII-46-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	Bz	F	F	F	OH	H	H
XVII-46-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	F	F	F	OH	H	H
XVII-46-8	p-Me—Ph	*	H	*	Bz	F	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVI-47

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVII-47-1	p-F—Ph	H	H	H	Bz	F	F	F	OH	H	H
XVII-47-2	p-F—Ph	H	H	CH ₃	Bz	F	F	F	OH	H	H
XVII-47-3	p-F—Ph	H	H	CH(CH ₃) ₂	Bz	F	F	F	OH	H	H
XVII-47-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	F	F	F	OH	H	H
XVII-47-5	p-F—Ph	H	H	CH ₂ Ph	Bz	F	F	F	OH	H	H
XVII-47-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	Bz	F	F	F	OH	H	H
XVII-47-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	F	F	F	OH	H	H
XVII-47-8	p-F—Ph	*	H	*	Bz	F	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVI-48

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVII-48-1	p-Cl—Ph	H	H	H	Bz	F	F	F	OH	H	H
XVII-48-2	p-Cl—Ph	H	H	CH ₃	Bz	F	F	F	OH	H	H
XVII-48-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	Bz	F	F	F	OH	H	H
XVII-48-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	F	F	F	OH	H	H
XVII-48-5	p-Cl—Ph	H	H	CH ₂ Ph	Bz	F	F	F	OH	H	H
XVII-48-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	Bz	F	F	F	OH	H	H
XVII-48-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	F	F	F	OH	H	H
XVII-48-8	p-Cl—Ph	*	H	*	Bz	F	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVI-49

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVII-49-1	p-Br—Ph	H	H	H	Bz	F	F	F	OH	H	H
XVII-49-2	p-Br—Ph	H	H	CH ₃	Bz	F	F	F	OH	H	H
XVII-49-3	p-Br—Ph	H	H	CH(CH ₃) ₂	Bz	F	F	F	OH	H	H
XVII-49-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	F	F	F	OH	H	H
XVII-49-5	p-Br—Ph	H	H	CH ₂ Ph	Bz	F	F	F	OH	H	H
XVII-49-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	Bz	F	F	F	OH	H	H
XVII-49-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	F	F	F	OH	H	H
XVII-49-8	p-Br—Ph	*	H	*	Bz	F	F	F	OH	H	H

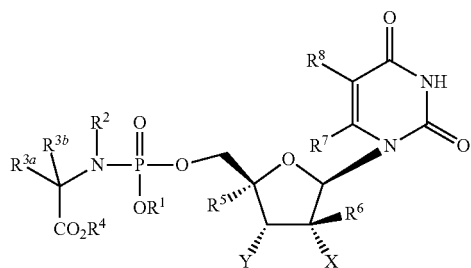
*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVI-50

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVII-50-1	p-I—Ph	H	H	H	Bz	F	F	F	OH	H	H
XVII-50-2	p-I—Ph	H	H	CH ₃	Bz	F	F	F	OH	H	H
XVII-50-3	p-I—Ph	H	H	CH(CH ₃) ₂	Bz	F	F	F	OH	H	H
XVII-50-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	F	F	F	OH	H	H
XVII-50-5	p-I—Ph	H	H	CH ₂ Ph	Bz	F	F	F	OH	H	H
XVII-50-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	Bz	F	F	F	OH	H	H
XVII-50-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	F	F	F	OH	H	H
XVII-50-8	p-I—Ph	*	H	*	Bz	F	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

XVII



5

10

TABLE XVII-1

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVII-1-1	CH ₃	H	H	H	CH ₃	F	H	F	OH	H	H
XVII-1-2	CH ₃	H	H	CH ₃	CH ₃	F	H	F	OH	H	H
XVII-1-3	CH ₃	H	H	CH(CH ₃) ₂	CH ₃	F	H	F	OH	H	H
XVII-1-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	F	H	F	OH	H	H
XVII-1-5	CH ₃	H	H	CH ₂ Ph	CH ₃	F	H	F	OH	H	H
XVII-1-6	CH ₃	H	H	CH ₂ -indol-3-yl	CH ₃	F	H	F	OH	H	H
XVII-1-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	F	H	F	OH	H	H
XVII-1-8	CH ₃	*	H	*	CH ₃	F	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVII-2

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVII-2-1	Et	H	H	H	CH ₃	F	H	F	OH	H	H
XVII-2-2	Et	H	H	CH ₃	CH ₃	F	H	F	OH	H	H
XVII-2-3	Et	H	H	CH(CH ₃) ₂	CH ₃	F	H	F	OH	H	H
XVII-2-4	Et	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	F	H	F	OH	H	H
XVII-2-5	Et	H	H	CH ₂ Ph	CH ₃	F	H	F	OH	H	H
XVII-2-6	Et	H	H	CH ₂ -indol-3-yl	CH ₃	F	H	F	OH	H	H
XVII-2-7	Et	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	F	H	F	OH	H	H
XVII-2-8	Et	*	H	*	CH ₃	F	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVII-4

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVII-4-1	^t Bu	H	H	H	CH ₃	F	H	F	OH	H	H
XVII-4-2	^t Bu	H	H	CH ₃	CH ₃	F	H	F	OH	H	H
XVII-4-3	^t Bu	H	H	CH(CH ₃) ₂	CH ₃	F	H	F	OH	H	H
XVII-4-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	F	H	F	OH	H	H
XVII-4-5	^t Bu	H	H	CH ₂ Ph	CH ₃	F	H	F	OH	H	H
XVII-4-6	^t Bu	H	H	CH ₂ -indol-3-yl	CH ₃	F	H	F	OH	H	H
XVII-4-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	F	H	F	OH	H	H
XVII-4-8	^t Bu	*	H	*	CH ₃	F	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVII-3

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVII-3-1	ⁱ Pr	H	H	H	CH ₃	F	H	F	OH	H	H
XVII-3-2	ⁱ Pr	H	H	CH ₃	CH ₃	F	H	F	OH	H	H
XVII-3-3	ⁱ Pr	H	H	CH(CH ₃) ₂	CH ₃	F	H	F	OH	H	H
XVII-3-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	F	H	F	OH	H	H
XVII-3-5	ⁱ Pr	H	H	CH ₂ Ph	CH ₃	F	H	F	OH	H	H
XVII-3-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	CH ₃	F	H	F	OH	H	H
XVII-3-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	F	H	F	OH	H	H
XVII-3-8	ⁱ Pr	*	H	*	CH ₃	F	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVII-5

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVII-5-1	Ph	H	H	H	CH ₃	F	H	F	OH	H	H
XVII-5-2	Ph	H	H	CH ₃	CH ₃	F	H	F	OH	H	H
XVII-5-3	Ph	H	H	CH(CH ₃) ₂	CH ₃	F	H	F	OH	H	H
XVII-5-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	F	H	F	OH	H	H
XVII-5-5	Ph	H	H	CH ₂ Ph	CH ₃	F	H	F	OH	H	H
XVII-5-6	Ph	H	H	CH ₂ -indol-3-yl	CH ₃	F	H	F	OH	H	H
XVII-5-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	F	H	F	OH	H	H
XVII-5-8	Ph	*	H	*	CH ₃	F	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVII-6

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVII-6-1	p-Me—Ph	H	H	H	CH ₃	F	H	F	OH	H	H
XVII-6-2	p-Me—Ph	H	H	CH ₃	CH ₃	F	H	F	OH	H	H
XVII-6-3	p-Me—Ph	H	H	CH(CH ₃) ₂	CH ₃	F	H	F	OH	H	H
XVII-6-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	F	H	F	OH	H	H
XVII-6-5	p-Me—Ph	H	H	CH ₂ Ph	CH ₃	F	H	F	OH	H	H
XVII-6-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	F	H	F	OH	H	H
XVII-6-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	F	H	F	OH	H	H
XVII-6-8	p-Me—Ph	*	H	*	CH ₃	F	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVII-7

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVII-7-1	p-F—Ph	H	H	H	CH ₃	F	H	F	OH	H	H
XVII-7-2	p-F—Ph	H	H	CH ₃	CH ₃	F	H	F	OH	H	H
XVII-7-3	p-F—Ph	H	H	CH(CH ₃) ₂	CH ₃	F	H	F	OH	H	H
XVII-7-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	F	H	F	OH	H	H
XVII-7-6	p-F—Ph	H	H	CH ₂ Ph	CH ₃	F	H	F	OH	H	H
XVII-7-7	p-F—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	F	H	F	OH	H	H
XVII-7-8	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	F	H	F	OH	H	H
XVII-7-20	p-F—Ph	*	H	*	CH ₃	F	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVII-8

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVII-8-1	p-Cl—Ph	H	H	H	CH ₃	F	H	F	OH	H	H
XVII-8-2	p-Cl—Ph	H	H	CH ₃	CH ₃	F	H	F	OH	H	H
XVII-8-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	CH ₃	F	H	F	OH	H	H
XVII-8-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	F	H	F	OH	H	H
XVII-8-5	p-Cl—Ph	H	H	CH ₂ Ph	CH ₃	F	H	F	OH	H	H
XVII-8-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	F	H	F	OH	H	H
XVII-8-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	F	H	F	OH	H	H
XVII-8-8	p-Cl—Ph	*	H	*	CH ₃	F	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVII-9

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVII-9-1	p-Br—Ph	H	H	H	CH ₃	F	H	F	OH	H	H
XVII-9-2	p-Br—Ph	H	H	CH ₃	CH ₃	F	H	F	OH	H	H
XVII-9-3	p-Br—Ph	H	H	CH(CH ₃) ₂	CH ₃	F	H	F	OH	H	H
XVII-9-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	F	H	F	OH	H	H
XVII-9-6	p-Br—Ph	H	H	CH ₂ Ph	CH ₃	F	H	F	OH	H	H
XVII-9-7	p-Br—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	F	H	F	OH	H	H
XVII-9-8	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	F	H	F	OH	H	H
XVII-9-20	p-Br—Ph	*	H	*	CH ₃	F	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVII-10

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVII-10-1	p-I—Ph	H	H	H	CH ₃	F	H	F	OH	H	H
XVII-10-2	p-I—Ph	H	H	CH ₃	CH ₃	F	H	F	OH	H	H
XVII-10-3	p-I—Ph	H	H	CH(CH ₃) ₂	CH ₃	F	H	F	OH	H	H
XVII-10-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	F	H	F	OH	H	H
XVII-10-5	p-I—Ph	H	H	CH ₂ Ph	CH ₃	F	H	F	OH	H	H
XVII-10-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	F	H	F	OH	H	H
XVII-10-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	F	H	F	OH	H	H
XVII-10-8	p-I—Ph	*	H	*	CH ₃	F	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVII-11

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVII-11-1	CH ₃	H	H	H	Et	F	H	F	OH	H	H
XVII-11-2	CH ₃	H	H	CH ₃	Et	F	H	F	OH	H	H
XVII-11-3	CH ₃	H	H	CH(CH ₃) ₂	Et	F	H	F	OH	H	H
XVII-11-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	Et	F	H	F	OH	H	H
XVII-11-5	CH ₃	H	H	CH ₂ Ph	Et	F	H	F	OH	H	H
XVII-11-6	CH ₃	H	H	CH ₂ -indol-3-yl	Et	F	H	F	OH	H	H
XVII-11-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	Et	F	H	F	OH	H	H
XVII-11-8	CH ₃	*	H	*	Et	F	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVII-12

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVII-12-1	Et	H	H	H	Et	F	H	F	OH	H	H
XVII-12-2	Et	H	H	CH ₃	Et	F	H	F	OH	H	H
XVII-12-3	Et	H	H	CH(CH ₃) ₂	Et	F	H	F	OH	H	H
XVII-12-4	Et	H	H	CH ₂ CH(CH ₃) ₂	Et	F	H	F	OH	H	H
XVII-12-5	Et	H	H	CH ₂ Ph	Et	F	H	F	OH	H	H
XVII-12-6	Et	H	H	CH ₂ -indol-3-yl	Et	F	H	F	OH	H	H
XVII-12-7	Et	H	H	CH ₂ CH ₂ SCH ₃	Et	F	H	F	OH	H	H
XVII-12-8	Et	*	H	*	Et	F	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVII-13

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVII-13-1	ⁱ Pr	H	H	H	Et	F	H	F	OH	H	H
XVII-13-2	ⁱ Pr	H	H	CH ₃	Et	F	H	F	OH	H	H
XVII-13-3	ⁱ Pr	H	H	CH(CH ₃) ₂	Et	F	H	F	OH	H	H
XVII-13-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	Et	F	H	F	OH	H	H
XVII-13-5	ⁱ Pr	H	H	CH ₂ Ph	Et	F	H	F	OH	H	H
XVII-13-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	Et	F	H	F	OH	H	H
XVII-13-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	Et	F	H	F	OH	H	H
XVII-13-8	ⁱ Pr	*	H	*	Et	F	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVII-14

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVII-14-1	^t Bu	H	H	H	Et	F	H	F	OH	H	H
XVII-14-2	^t Bu	H	H	CH ₃	Et	F	H	F	OH	H	H
XVII-14-3	^t Bu	H	H	CH(CH ₃) ₂	Et	F	H	F	OH	H	H
XVII-14-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	Et	F	H	F	OH	H	H
XVII-14-5	^t Bu	H	H	CH ₂ Ph	Et	F	H	F	OH	H	H
XVII-14-6	^t Bu	H	H	CH ₂ -indol-3-yl	Et	F	H	F	OH	H	H
XVII-14-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	Et	F	H	F	OH	H	H
XVII-14-8	^t Bu	*	H	*	Et	F	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVII-15

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVII-15-1	Ph	H	H	H	Et	F	H	F	OH	H	H
XVII-15-2	Ph	H	H	CH ₃	Et	F	H	F	OH	H	H
XVII-15-3	Ph	H	H	CH(CH ₃) ₂	Et	F	H	F	OH	H	H
XVII-15-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	F	H	F	OH	H	H
XVII-15-5	Ph	H	H	CH ₂ Ph	Et	F	H	F	OH	H	H
XVII-15-6	Ph	H	H	CH ₂ -indol-3-yl	Et	F	H	F	OH	H	H
XVII-15-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	F	H	F	OH	H	H
XVII-15-8	Ph	*	H	*	Et	F	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVII-16

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVII-16-1	p-Me—Ph	H	H	H	Et	F	H	F	OH	H	H
XVII-16-2	p-Me—Ph	H	H	CH ₃	Et	F	H	F	OH	H	H
XVII-16-3	p-Me—Ph	H	H	CH(CH ₃) ₂	Et	F	H	F	OH	H	H
XVII-16-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	F	H	F	OH	H	H
XVII-16-5	p-Me—Ph	H	H	CH ₂ Ph	Et	F	H	F	OH	H	H
XVII-16-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	Et	F	H	F	OH	H	H
XVII-16-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	F	H	F	OH	H	H
XVII-16-8	p-Me—Ph	*	H	*	Et	F	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVII-17

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVII-17-1	p-F—Ph	H	H	H	Et	F	H	F	OH	H	H
XVII-17-2	p-F—Ph	H	H	CH ₃	Et	F	H	F	OH	H	H
XVII-17-3	p-F—Ph	H	H	CH(CH ₃) ₂	Et	F	H	F	OH	H	H
XVII-17-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	F	H	F	OH	H	H
XVII-17-5	p-F—Ph	H	H	CH ₂ Ph	Et	F	H	F	OH	H	H
XVII-17-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	Et	F	H	F	OH	H	H
XVII-17-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	F	H	F	OH	H	H
XVII-17-8	p-F—Ph	*	H	*	Et	F	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVII-18

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVII-18-1	p-Cl—Ph	H	H	H	Et	F	H	F	OH	H	H
XVII-18-2	p-Cl—Ph	H	H	CH ₃	Et	F	H	F	OH	H	H
XVII-18-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	Et	F	H	F	OH	H	H
XVII-18-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	F	H	F	OH	H	H
XVII-18-5	p-Cl—Ph	H	H	CH ₂ Ph	Et	F	H	F	OH	H	H
XVII-18-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	Et	F	H	F	OH	H	H
XVII-18-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	F	H	F	OH	H	H
XVII-18-8	p-Cl—Ph	*	H	*	Et	F	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVII-19

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVII-19-1	p-Br—Ph	H	H	H	Et	F	H	F	OH	H	H
XVII-19-2	p-Br—Ph	H	H	CH ₃	Et	F	H	F	OH	H	H
XVII-19-3	p-Br—Ph	H	H	CH(CH ₃) ₂	Et	F	H	F	OH	H	H
XVII-19-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	F	H	F	OH	H	H
XVII-19-5	p-Br—Ph	H	H	CH ₂ Ph	Et	F	H	F	OH	H	H
XVII-19-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	Et	F	H	F	OH	H	H
XVII-19-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	F	H	F	OH	H	H
XVII-19-8	p-Br—Ph	*	H	*	Et	F	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVII-20

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVII-20-1	p-I—Ph	H	H	H	Et	F	H	F	OH	H	H
XVII-20-2	p-I—Ph	H	H	CH ₃	Et	F	H	F	OH	H	H
XVII-20-3	p-I—Ph	H	H	CH(CH ₃) ₂	Et	F	H	F	OH	H	H
XVII-20-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	F	H	F	OH	H	H
XVII-20-5	p-I—Ph	H	H	CH ₂ Ph	Et	F	H	F	OH	H	H
XVII-20-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	Et	F	H	F	OH	H	H
XVII-20-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	F	H	F	OH	H	H
XVII-20-8	p-I—Ph	*	H	*	Et	F	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVII-21

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVII-21-1	CH ₃	H	H	H	ⁱ Pr	F	H	F	OH	H	H
XVII-21-2	CH ₃	H	H	CH ₃	ⁱ Pr	F	H	F	OH	H	H
XVII-21-3	CH ₃	H	H	CH(CH ₃) ₂	ⁱ Pr	F	H	F	OH	H	H
XVII-21-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	F	H	F	OH	H	H
XVII-21-5	CH ₃	H	H	CH ₂ Ph	ⁱ Pr	F	H	F	OH	H	H
XVII-21-6	CH ₃	H	H	CH ₂ -indol-3-yl	ⁱ Pr	F	H	F	OH	H	H
XVII-21-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	F	H	F	OH	H	H
XVII-21-8	CH ₃	*	H	*	ⁱ Pr	F	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVII-22

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVII-22-1	Et	H	H	H	ⁱ Pr	F	H	F	OH	H	H
XVII-22-2	Et	H	H	CH ₃	ⁱ Pr	F	H	F	OH	H	H
XVII-22-3	Et	H	H	CH(CH ₃) ₂	ⁱ Pr	F	H	F	OH	H	H
XVII-22-4	Et	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	F	H	F	OH	H	H
XVII-22-5	Et	H	H	CH ₂ Ph	ⁱ Pr	F	H	F	OH	H	H

TABLE XVII-22-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVII-22-6	Et	H	H	CH ₂ -indol-3-yl	ⁱ Pr	F	H	F	OH	H	H
XVII-22-7	Et	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	F	H	F	OH	H	H
XVII-22-8	Et	*	H	*	ⁱ Pr	F	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

371

TABLE XVII-23

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVII-23-1	ⁱ Pr	H	H	H	ⁱ Pr	F	H	F	OH	H	H
XVII-23-2	ⁱ Pr	H	H	CH ₃	ⁱ Pr	F	H	F	OH	H	H
XVII-23-3	ⁱ Pr	H	H	CH(CH ₃) ₂	ⁱ Pr	F	H	F	OH	H	H
XVII-23-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	F	H	F	OH	H	H
XVII-23-5	ⁱ Pr	H	H	CH ₂ Ph	ⁱ Pr	F	H	F	OH	H	H
XVII-23-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	ⁱ Pr	F	H	F	OH	H	H
XVII-23-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	F	H	F	OH	H	H
XVII-23-8	ⁱ Pr	*	H	*	ⁱ Pr	F	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVII-24

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVII-24-1	^t Bu	H	H	H	ⁱ Pr	F	H	F	OH	H	H
XVII-24-2	^t Bu	H	H	CH ₃	ⁱ Pr	F	H	F	OH	H	H
XVII-24-3	^t Bu	H	H	CH(CH ₃) ₂	ⁱ Pr	F	H	F	OH	H	H
XVII-24-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	F	H	F	OH	H	H

372

TABLE XVII-24-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVII-24-5	^t Bu	H	H	CH ₂ Ph	ⁱ Pr	F	H	F	OH	H	H
XVII-24-6	^t Bu	H	H	CH ₂ -indol-3-yl	ⁱ Pr	F	H	F	OH	H	H
XVII-24-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	F	H	F	OH	H	H
XVII-24-8	^t Bu	*	H	*	ⁱ Pr	F	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVII-25

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVII-25-1	Ph	H	H	H	ⁱ Pr	F	H	F	OH	H	H
XVII-25-2	Ph	H	H	CH ₃	ⁱ Pr	F	H	F	OH	H	H
XVII-25-3	Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	F	H	F	OH	H	H
XVII-25-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	F	H	F	OH	H	H
XVII-25-5	Ph	H	H	CH ₂ Ph	ⁱ Pr	F	H	F	OH	H	H
XVII-25-6	Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	F	H	F	OH	H	H
XVII-25-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	F	H	F	OH	H	H
XVII-25-8	Ph	*	H	*	ⁱ Pr	F	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVII-26

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVII-26-1	p-Me-Ph	H	H	H	ⁱ Pr	F	H	F	OH	H	H
XVII-26-2	p-Me-Ph	H	H	CH ₃	ⁱ Pr	F	H	F	OH	H	H
XVII-26-3	p-Me-Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	F	H	F	OH	H	H
XVII-26-4	p-Me-Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	F	H	F	OH	H	H
XVII-26-5	p-Me-Ph	H	H	CH ₂ Ph	ⁱ Pr	F	H	F	OH	H	H
XVII-26-6	p-Me-Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	F	H	F	OH	H	H
XVII-26-7	p-Me-Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	F	H	F	OH	H	H
XVII-26-8	p-Me-Ph	*	H	*	ⁱ Pr	F	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVII-27

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVII-27-1	p-F-Ph	H	H	H	ⁱ Pr	F	H	F	OH	H	H
XVII-27-2	p-F-Ph	H	H	CH ₃	ⁱ Pr	F	H	F	OH	H	H
XVII-27-3	p-F-Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	F	H	F	OH	H	H
XVII-27-4	p-F-Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	F	H	F	OH	H	H
XVII-27-5	p-F-Ph	H	H	CH ₂ Ph	ⁱ Pr	F	H	F	OH	H	H
XVII-27-6	p-F-Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	F	H	F	OH	H	H
XVII-27-7	p-F-Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	F	H	F	OH	H	H
XVII-27-8	p-F-Ph	*	H	*	ⁱ Pr	F	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVII-28

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVII-28-1	p-Cl-Ph	H	H	H	ⁱ Pr	F	H	F	OH	H	H
XVII-28-2	p-Cl-Ph	H	H	CH ₃	ⁱ Pr	F	H	F	OH	H	H
XVII-28-3	p-Cl-Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	F	H	F	OH	H	H
XVII-28-4	p-Cl-Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	F	H	F	OH	H	H
XVII-28-5	p-Cl-Ph	H	H	CH ₂ Ph	ⁱ Pr	F	H	F	OH	H	H
XVII-28-6	p-Cl-Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	F	H	F	OH	H	H

TABLE XVII-28-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVII-28-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	F	H	F	OH	H	H
XVII-28-8	p-Cl—Ph	*	H	*	ⁱ Pr	F	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVII-29

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVII-29-1	p-Br—Ph	H	H	H	ⁱ Pr	F	H	F	OH	H	H
XVII-29-2	p-Br—Ph	H	H	CH ₃	ⁱ Pr	F	H	F	OH	H	H
XVII-29-3	p-Br—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	F	H	F	OH	H	H
XVII-29-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	F	H	F	OH	H	H
XVII-29-5	p-Br—Ph	H	H	CH ₂ Ph	ⁱ Pr	F	H	F	OH	H	H
XVII-29-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	F	H	F	OH	H	H
XVII-29-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	F	H	F	OH	H	H
XVII-29-8	p-Br—Ph	*	H	*	ⁱ Pr	F	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVII-30

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVII-30-1	p-I—Ph	H	H	H	ⁱ Pr	F	H	F	OH	H	H
XVII-30-2	p-I—Ph	H	H	CH ₃	ⁱ Pr	F	H	F	OH	H	H
XVII-30-3	p-I—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	F	H	F	OH	H	H
XVII-30-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	F	H	F	OH	H	H
XVII-30-5	p-I—Ph	H	H	CH ₂ Ph	ⁱ Pr	F	H	F	OH	H	H
XVII-30-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	F	H	F	OH	H	H
XVII-30-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	F	H	F	OH	H	H
XVII-30-8	p-I—Ph	*	H	*	ⁱ Pr	F	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVII-31

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVII-31-1	CH ₃	H	H	H	ⁿ Bu	F	H	F	OH	H	H
XVII-31-2	CH ₃	H	H	CH ₃	ⁿ Bu	F	H	F	OH	H	H
XVII-31-3	CH ₃	H	H	CH(CH ₃) ₂	ⁿ Bu	F	H	F	OH	H	H
XVII-31-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	F	H	F	OH	H	H
XVII-31-5	CH ₃	H	H	CH ₂ Ph	ⁿ Bu	F	H	F	OH	H	H
XVII-31-6	CH ₃	H	H	CH ₂ -indol-3-yl	ⁿ Bu	F	H	F	OH	H	H
XVII-31-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	F	H	F	OH	H	H
XVII-31-8	CH ₃	*	H	*	ⁿ Bu	F	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVII-32

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVII-32-1	Et	H	H	H	ⁿ Bu	F	H	F	OH	H	H
XVII-32-2	Et	H	H	CH ₃	ⁿ Bu	F	H	F	OH	H	H
XVII-32-3	Et	H	H	CH(CH ₃) ₂	ⁿ Bu	F	H	F	OH	H	H
XVII-32-4	Et	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	F	H	F	OH	H	H
XVII-32-5	Et	H	H	CH ₂ Ph	ⁿ Bu	F	H	F	OH	H	H
XVII-32-6	Et	H	H	CH ₂ -indol-3-yl	ⁿ Bu	F	H	F	OH	H	H
XVII-32-7	Et	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	F	H	F	OH	H	H
XVII-32-8	Et	*	H	*	ⁿ Bu	F	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVII-33

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVII-33-1	ⁱ Pr	H	H	H	ⁿ Bu	F	H	F	OH	H	H
XVII-33-2	ⁱ Pr	H	H	CH ₃	ⁿ Bu	F	H	F	OH	H	H
XVII-33-3	ⁱ Pr	H	H	CH(CH ₃) ₂	ⁿ Bu	F	H	F	OH	H	H
XVII-33-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	F	H	F	OH	H	H
XVII-33-5	ⁱ Pr	H	H	CH ₂ Ph	ⁿ Bu	F	H	F	OH	H	H
XVII-33-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	ⁿ Bu	F	H	F	OH	H	H
XVII-33-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	F	H	F	OH	H	H
XVII-33-8	ⁱ Pr	*	H	*	ⁿ Bu	F	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

375

TABLE XVII-34

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVII-34-1	"Bu	H	H	H	"Bu	F	H	F	OH	H	H
XVII-34-2	"Bu	H	H	CH ₃	"Bu	F	H	F	OH	H	H
XVII-34-3	"Bu	H	H	CH(CH ₃) ₂	"Bu	F	H	F	OH	H	H
XVII-34-4	"Bu	H	H	CH ₂ CH(CH ₃) ₂	"Bu	F	H	F	OH	H	H
XVII-34-5	"Bu	H	H	CH ₂ Ph	"Bu	F	H	F	OH	H	H
XVII-34-6	"Bu	H	H	CH ₂ -indol-3-yl	"Bu	F	H	F	OH	H	H
XVII-34-7	"Bu	H	H	CH ₂ CH ₂ SCH ₃	"Bu	F	H	F	OH	H	H
XVII-34-8	"Bu	*	H	*	"Bu	F	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

376

TABLE XVII-35

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVII-35-1	Ph	H	H	H	"Bu	F	H	F	OH	H	H
XVII-35-2	Ph	H	H	CH ₃	"Bu	F	H	F	OH	H	H
XVII-35-3	Ph	H	H	CH(CH ₃) ₂	"Bu	F	H	F	OH	H	H
XVII-35-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	F	H	F	OH	H	H
XVII-35-5	Ph	H	H	CH ₂ Ph	"Bu	F	H	F	OH	H	H
XVII-35-6	Ph	H	H	CH ₂ -indol-3-yl	"Bu	F	H	F	OH	H	H
XVII-35-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	F	H	F	OH	H	H
XVII-35-8	Ph	*	H	*	"Bu	F	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVII-36

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVII-36-1	p-Me—Ph	H	H	H	"Bu	F	H	F	OH	H	H
XVII-36-2	p-Me—Ph	H	H	CH ₃	"Bu	F	H	F	OH	H	H
XVII-36-3	p-Me—Ph	H	H	CH(CH ₃) ₂	"Bu	F	H	F	OH	H	H
XVII-36-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	F	H	F	OH	H	H
XVII-36-5	p-Me—Ph	H	H	CH ₂ Ph	"Bu	F	H	F	OH	H	H
XVII-36-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	"Bu	F	H	F	OH	H	H
XVII-36-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	F	H	F	OH	H	H
XVII-36-8	p-Me—Ph	*	H	*	"Bu	F	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVII-37

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVII-37-1	p-F—Ph	H	H	H	"Bu	F	H	F	OH	H	H
XVII-37-2	p-F—Ph	H	H	CH ₃	"Bu	F	H	F	OH	H	H
XVII-37-3	p-F—Ph	H	H	CH(CH ₃) ₂	"Bu	F	H	F	OH	H	H
XVII-37-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	F	H	F	OH	H	H
XVII-37-5	p-F—Ph	H	H	CH ₂ Ph	"Bu	F	H	F	OH	H	H
XVII-37-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	"Bu	F	H	F	OH	H	H
XVII-37-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	F	H	F	OH	H	H
XVII-37-8	p-F—Ph	*	H	*	"Bu	F	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVII-38

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVII-38-1	p-Cl—Ph	H	H	H	"Bu	F	H	F	OH	H	H
XVII-38-2	p-Cl—Ph	H	H	CH ₃	"Bu	F	H	F	OH	H	H
XVII-38-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	"Bu	F	H	F	OH	H	H
XVII-38-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	F	H	F	OH	H	H
XVII-38-5	p-Cl—Ph	H	H	CH ₂ Ph	"Bu	F	H	F	OH	H	H
XVII-38-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	"Bu	F	H	F	OH	H	H
XVII-38-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	F	H	F	OH	H	H
XVII-38-8	p-Cl—Ph	*	H	*	"Bu	F	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVII-39

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVII-39-1	p-Br—Ph	H	H	H	"Bu	F	H	F	OH	H	H
XVII-39-2	p-Br—Ph	H	H	CH ₃	"Bu	F	H	F	OH	H	H
XVII-39-3	p-Br—Ph	H	H	CH(CH ₃) ₂	"Bu	F	H	F	OH	H	H
XVII-39-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	F	H	F	OH	H	H
XVII-39-5	p-Br—Ph	H	H	CH ₂ Ph	"Bu	F	H	F	OH	H	H

TABLE XVII-39-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVII-39-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	ⁿ Bu	F	H	F	OH	H	H
XVII-39-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	F	H	F	OH	H	H
XVII-39-8	p-Br—Ph	*	H	*	ⁿ Bu	F	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVII-40

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVII-40-1	p-I—Ph	H	H	H	ⁿ Bu	F	H	F	OH	H	H
XVII-40-2	p-I—Ph	H	H	CH ₃	ⁿ Bu	F	H	F	OH	H	H
XVII-40-3	p-I—Ph	H	H	CH(CH ₃) ₂	ⁿ Bu	F	H	F	OH	H	H
XVII-40-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	F	H	F	OH	H	H
XVII-40-5	p-I—Ph	H	H	CH ₂ Ph	ⁿ Bu	F	H	F	OH	H	H
XVII-40-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	ⁿ Bu	F	H	F	OH	H	H
XVII-40-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	F	H	F	OH	H	H
XVII-40-8	p-I—Ph	*	H	*	ⁿ Bu	F	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVII-41

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVII-41-1	CH ₃	H	H	H	Bz	F	H	F	OH	H	H
XVII-41-2	CH ₃	H	H	CH ₃	Bz	F	H	F	OH	H	H
XVII-41-3	CH ₃	H	H	CH(CH ₃) ₂	Bz	F	H	F	OH	H	H
XVII-41-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	Bz	F	H	F	OH	H	H
XVII-41-5	CH ₃	H	H	CH ₂ Ph	Bz	F	H	F	OH	H	H
XVII-41-6	CH ₃	H	H	CH ₂ -indol-3-yl	Bz	F	H	F	OH	H	H
XVII-41-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	Bz	F	H	F	OH	H	H
XVII-41-8	CH ₃	*	H	*	Bz	F	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVII-42

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVII-42-1	Et	H	H	H	Bz	F	H	F	OH	H	H
XVII-42-2	Et	H	H	CH ₃	Bz	F	H	F	OH	H	H
XVII-42-3	Et	H	H	CH(CH ₃) ₂	Bz	F	H	F	OH	H	H
XVII-42-4	Et	H	H	CH ₂ CH(CH ₃) ₂	Bz	F	H	F	OH	H	H
XVII-42-5	Et	H	H	CH ₂ Ph	Bz	F	H	F	OH	H	H
XVII-42-6	Et	H	H	CH ₂ -indol-3-yl	Bz	F	H	F	OH	H	H
XVII-42-7	Et	H	H	CH ₂ CH ₂ SCH ₃	Bz	F	H	F	OH	H	H
XVII-42-8	Et	*	H	*	Bz	F	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVII-43

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVII-43-1	ⁱ Pr	H	H	H	Bz	F	H	F	OH	H	H

TABLE XVII-43-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVII-43-2	ⁱ Pr	H	H	CH ₃	Bz	F	H	F	OH	H	H
XVII-43-3	ⁱ Pr	H	H	CH(CH ₃) ₂	Bz	F	H	F	OH	H	H
XVII-43-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	Bz	F	H	F	OH	H	H
XVII-43-5	ⁱ Pr	H	H	CH ₂ Ph	Bz	F	H	F	OH	H	H
XVII-43-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	Bz	F	H	F	OH	H	H
XVII-43-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	Bz	F	H	F	OH	H	H
XVII-43-8	ⁱ Pr	*	H	*	Bz	F	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVII-44

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVII-44-1	^t Bu	H	H	H	Bz	F	H	F	OH	H	H
XVII-44-2	^t Bu	H	H	CH ₃	Bz	F	H	F	OH	H	H
XVII-44-3	^t Bu	H	H	CH(CH ₃) ₂	Bz	F	H	F	OH	H	H
XVII-44-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	Bz	F	H	F	OH	H	H
XVII-44-5	^t Bu	H	H	CH ₂ Ph	Bz	F	H	F	OH	H	H
XVII-44-6	^t Bu	H	H	CH ₂ -indol-3-yl	Bz	F	H	F	OH	H	H
XVII-44-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	Bz	F	H	F	OH	H	H
XVII-44-8	^t Bu	*	H	*	Bz	F	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVII-45

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVII-45-1	Ph	H	H	H	Bz	F	H	F	OH	H	H
XVII-45-2	Ph	H	H	CH ₃	Bz	F	H	F	OH	H	H

379

TABLE XVII-45-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVII-45-3	Ph	H	H	CH(CH ₃) ₂	Bz	F	H	F	OH	H	H
XVII-45-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	F	H	F	OH	H	H
XVII-45-5	Ph	H	H	CH ₂ Ph	Bz	F	H	F	OH	H	H

380

TABLE XVII-45-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVII-45-6	Ph	H	H	CH ₂ -indol-3-yl	Bz	F	H	F	OH	H	H
XVII-45-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	F	H	F	OH	H	H
XVII-45-8	Ph	*	H	*	Bz	F	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVII-46

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVII-46-1	p-Me—Ph	H	H	H	Bz	F	H	F	OH	H	H
XVII-46-2	p-Me—Ph	H	H	CH ₃	Bz	F	H	F	OH	H	H
XVII-46-3	p-Me—Ph	H	H	CH(CH ₃) ₂	Bz	F	H	F	OH	H	H
XVII-46-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	F	H	F	OH	H	H
XVII-46-5	p-Me—Ph	H	H	CH ₂ Ph	Bz	F	H	F	OH	H	H
XVII-46-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	Bz	F	H	F	OH	H	H
XVII-46-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	F	H	F	OH	H	H
XVII-46-8	p-Me—Ph	*	H	*	Bz	F	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVII-47

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVII-47-1	p-F—Ph	H	H	H	Bz	F	H	F	OH	H	H
XVII-47-2	p-F—Ph	H	H	CH ₃	Bz	F	H	F	OH	H	H
XVII-47-3	p-F—Ph	H	H	CH(CH ₃) ₂	Bz	F	H	F	OH	H	H
XVII-47-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	F	H	F	OH	H	H
XVII-47-5	p-F—Ph	H	H	CH ₂ Ph	Bz	F	H	F	OH	H	H
XVII-47-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	Bz	F	H	F	OH	H	H
XVII-47-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	F	H	F	OH	H	H
XVII-47-8	p-F—Ph	*	H	*	Bz	F	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVII-48

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVII-48-1	p-Cl—Ph	H	H	H	Bz	F	H	F	OH	H	H
XVII-48-2	p-Cl—Ph	H	H	CH ₃	Bz	F	H	F	OH	H	H
XVII-48-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	Bz	F	H	F	OH	H	H
XVII-48-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	F	H	F	OH	H	H
XVII-48-5	p-Cl—Ph	H	H	CH ₂ Ph	Bz	F	H	F	OH	H	H
XVII-48-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	Bz	F	H	F	OH	H	H
XVII-48-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	F	H	F	OH	H	H
XVII-48-8	p-Cl—Ph	*	H	*	Bz	F	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVII-49

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVII-49-1	p-Br—Ph	H	H	H	Bz	F	H	F	OH	H	H
XVII-49-2	p-Br—Ph	H	H	CH ₃	Bz	F	H	F	OH	H	H
XVII-49-3	p-Br—Ph	H	H	CH(CH ₃) ₂	Bz	F	H	F	OH	H	H
XVII-49-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	F	H	F	OH	H	H
XVII-49-5	p-Br—Ph	H	H	CH ₂ Ph	Bz	F	H	F	OH	H	H
XVII-49-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	Bz	F	H	F	OH	H	H
XVII-49-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	F	H	F	OH	H	H
XVII-49-8	p-Br—Ph	*	H	*	Bz	F	H	F	OH	H	H

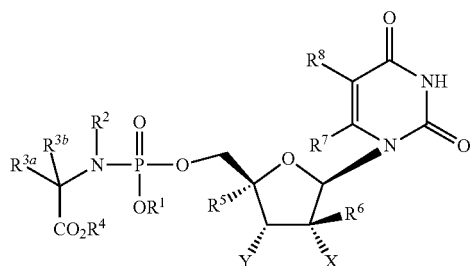
*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVII-50

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVII-50-1	p-I—Ph	H	H	H	Bz	F	H	F	OH	H	H
XVII-50-2	p-I—Ph	H	H	CH ₃	Bz	F	H	F	OH	H	H
XVII-50-3	p-I—Ph	H	H	CH(CH ₃) ₂	Bz	F	H	F	OH	H	H
XVII-50-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	F	H	F	OH	H	H
XVII-50-5	p-I—Ph	H	H	CH ₂ Ph	Bz	F	H	F	OH	H	H
XVII-50-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	Bz	F	H	F	OH	H	H
XVII-50-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	F	H	F	OH	H	H
XVII-50-8	p-I—Ph	*	H	*	Bz	F	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

XVIII 15



20

25

TABLE XVIII-1

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVIII-1-1	CH ₃	H	H	H	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-1-2	CH ₃	H	H	CH ₃	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-1-3	CH ₃	H	H	CH(CH ₃) ₂	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-1-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-1-5	CH ₃	H	H	CH ₂ Ph	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-1-6	CH ₃	H	H	CH ₂ -indol-3-yl	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-1-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-1-8	CH ₃	*	H	*	CH ₃	OCH ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVIII-2

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVIII-2-1	Et	H	H	H	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-2-2	Et	H	H	CH ₃	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-2-3	Et	H	H	CH(CH ₃) ₂	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-2-4	Et	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-2-5	Et	H	H	CH ₂ Ph	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-2-6	Et	H	H	CH ₂ -indol-3-yl	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-2-7	Et	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-2-8	Et	*	H	*	CH ₃	OCH ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVIII-3

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVIII-3-1	ⁱ Pr	H	H	H	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-3-2	ⁱ Pr	H	H	CH ₃	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-3-3	ⁱ Pr	H	H	CH(CH ₃) ₂	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-3-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-3-5	ⁱ Pr	H	H	CH ₂ Ph	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-3-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-3-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-3-8	ⁱ Pr	*	H	*	CH ₃	OCH ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVIII-4

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVIII-4-1	^t Bu	H	H	H	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-4-2	^t Bu	H	H	CH ₃	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-4-3	^t Bu	H	H	CH(CH ₃) ₂	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-4-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-4-5	^t Bu	H	H	CH ₂ Ph	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-4-6	^t Bu	H	H	CH ₂ -indol-3-yl	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-4-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-4-8	^t Bu	*	H	*	CH ₃	OCH ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVIII-5

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVIII-5-1	Ph	H	H	H	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-5-2	Ph	H	H	CH ₃	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-5-3	Ph	H	H	CH(CH ₃) ₂	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-5-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-5-5	Ph	H	H	CH ₂ Ph	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-5-6	Ph	H	H	CH ₂ -indol-3-yl	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-5-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-5-8	Ph	*	H	*	CH ₃	OCH ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVIII-6

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVIII-6-1	p-Me—Ph	H	H	H	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-6-2	p-Me—Ph	H	H	CH ₃	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-6-3	p-Me—Ph	H	H	CH(CH ₃) ₂	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-6-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-6-5	p-Me—Ph	H	H	CH ₂ Ph	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-6-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-6-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-6-8	p-Me—Ph	*	H	*	CH ₃	OCH ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVIII-7

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVIII-7-1	p-F—Ph	H	H	H	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-7-2	p-F—Ph	H	H	CH ₃	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-7-3	p-F—Ph	H	H	CH(CH ₃) ₂	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-7-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-7-6	p-F—Ph	H	H	CH ₂ Ph	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-7-7	p-F—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-7-8	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-7-20	p-F—Ph	*	H	*	CH ₃	OCH ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVIII-8

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVIII-8-1	p-Cl—Ph	H	H	H	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-8-2	p-Cl—Ph	H	H	CH ₃	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-8-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-8-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-8-5	p-Cl—Ph	H	H	CH ₂ Ph	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-8-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-8-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-8-8	p-Cl—Ph	*	H	*	CH ₃	OCH ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVIII-9

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVIII-9-1	p-Br—Ph	H	H	H	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-9-2	p-Br—Ph	H	H	CH ₃	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-9-3	p-Br—Ph	H	H	CH(CH ₃) ₂	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-9-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-9-6	p-Br—Ph	H	H	CH ₂ Ph	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-9-7	p-Br—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-9-8	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-9-20	p-Br—Ph	*	H	*	CH ₃	OCH ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVIII-10

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVIII-10-1	p-I—Ph	H	H	H	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-10-2	p-I—Ph	H	H	CH ₃	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-10-3	p-I—Ph	H	H	CH(CH ₃) ₂	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-10-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-10-5	p-I—Ph	H	H	CH ₂ Ph	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-10-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-10-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	OCH ₃	F	H	OH	H	H
XVIII-10-8	p-I—Ph	*	H	*	CH ₃	OCH ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVIII-11

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVIII-11-1	CH ₃	H	H	H	Et	OCH ₃	F	H	OH	H	H
XVIII-11-2	CH ₃	H	H	CH ₃	Et	OCH ₃	F	H	OH	H	H
XVIII-11-3	CH ₃	H	H	CH(CH ₃) ₂	Et	OCH ₃	F	H	OH	H	H
XVIII-11-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	Et	OCH ₃	F	H	OH	H	H
XVIII-11-5	CH ₃	H	H	CH ₂ Ph	Et	OCH ₃	F	H	OH	H	H
XVIII-11-6	CH ₃	H	H	CH ₂ -indol-3-yl	Et	OCH ₃	F	H	OH	H	H
XVIII-11-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	Et	OCH ₃	F	H	OH	H	H
XVIII-11-8	CH ₃	*	H	*	Et	OCH ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVIII-12

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVIII-12-1	Et	H	H	H	Et	OCH ₃	F	H	OH	H	H
XVIII-12-2	Et	H	H	CH ₃	Et	OCH ₃	F	H	OH	H	H
XVIII-12-3	Et	H	H	CH(CH ₃) ₂	Et	OCH ₃	F	H	OH	H	H
XVIII-12-4	Et	H	H	CH ₂ CH(CH ₃) ₂	Et	OCH ₃	F	H	OH	H	H
XVIII-12-5	Et	H	H	CH ₂ Ph	Et	OCH ₃	F	H	OH	H	H
XVIII-12-6	Et	H	H	CH ₂ -indol-3-yl	Et	OCH ₃	F	H	OH	H	H
XVIII-12-7	Et	H	H	CH ₂ CH ₂ SCH ₃	Et	OCH ₃	F	H	OH	H	H
XVIII-12-8	Et	*	H	*	Et	OCH ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVIII-13

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVIII-13-1	^t Pr	H	H	H	Et	OCH ₃	F	H	OH	H	H
XVIII-13-2	^t Pr	H	H	CH ₃	Et	OCH ₃	F	H	OH	H	H
XVIII-13-3	^t Pr	H	H	CH(CH ₃) ₂	Et	OCH ₃	F	H	OH	H	H
XVIII-13-4	^t Pr	H	H	CH ₂ CH(CH ₃) ₂	Et	OCH ₃	F	H	OH	H	H
XVIII-13-5	^t Pr	H	H	CH ₂ Ph	Et	OCH ₃	F	H	OH	H	H
XVIII-13-6	^t Pr	H	H	CH ₂ -indol-3-yl	Et	OCH ₃	F	H	OH	H	H
XVIII-13-7	^t Pr	H	H	CH ₂ CH ₂ SCH ₃	Et	OCH ₃	F	H	OH	H	H
XVIII-13-8	^t Pr	*	H	*	Et	OCH ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVIII-14

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVIII-14-1	^t Bu	H	H	H	Et	OCH ₃	F	H	OH	H	H
XVIII-14-2	^t Bu	H	H	CH ₃	Et	OCH ₃	F	H	OH	H	H
XVIII-14-3	^t Bu	H	H	CH(CH ₃) ₂	Et	OCH ₃	F	H	OH	H	H
XVIII-14-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	Et	OCH ₃	F	H	OH	H	H
XVIII-14-5	^t Bu	H	H	CH ₂ Ph	Et	OCH ₃	F	H	OH	H	H
XVIII-14-6	^t Bu	H	H	CH ₂ -indol-3-yl	Et	OCH ₃	F	H	OH	H	H
XVIII-14-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	Et	OCH ₃	F	H	OH	H	H
XVIII-14-8	^t Bu	*	H	*	Et	OCH ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVIII-15

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVIII-15-1	Ph	H	H	H	Et	OCH ₃	F	H	OH	H	H
XVIII-15-2	Ph	H	H	CH ₃	Et	OCH ₃	F	H	OH	H	H
XVIII-15-3	Ph	H	H	CH(CH ₃) ₂	Et	OCH ₃	F	H	OH	H	H
XVIII-15-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	OCH ₃	F	H	OH	H	H
XVIII-15-5	Ph	H	H	CH ₂ Ph	Et	OCH ₃	F	H	OH	H	H
XVIII-15-6	Ph	H	H	CH ₂ -indol-3-yl	Et	OCH ₃	F	H	OH	H	H
XVIII-15-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	OCH ₃	F	H	OH	H	H
XVIII-15-8	Ph	*	H	*	Et	OCH ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVIII-16

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVIII-16-1	p-Me—Ph	H	H	H	Et	OCH ₃	F	H	OH	H	H
XVIII-16-2	p-Me—Ph	H	H	CH ₃	Et	OCH ₃	F	H	OH	H	H
XVIII-16-3	p-Me—Ph	H	H	CH(CH ₃) ₂	Et	OCH ₃	F	H	OH	H	H
XVIII-16-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	OCH ₃	F	H	OH	H	H
XVIII-16-5	p-Me—Ph	H	H	CH ₂ Ph	Et	OCH ₃	F	H	OH	H	H
XVIII-16-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	Et	OCH ₃	F	H	OH	H	H
XVIII-16-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	OCH ₃	F	H	OH	H	H
XVIII-16-8	p-Me—Ph	*	H	*	Et	OCH ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVIII-17

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVIII-17-1	p-F—Ph	H	H	H	Et	OCH ₃	F	H	OH	H	H
XVIII-17-2	p-F—Ph	H	H	CH ₃	Et	OCH ₃	F	H	OH	H	H
XVIII-17-3	p-F—Ph	H	H	CH(CH ₃) ₂	Et	OCH ₃	F	H	OH	H	H
XVIII-17-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	OCH ₃	F	H	OH	H	H
XVIII-17-5	p-F—Ph	H	H	CH ₂ Ph	Et	OCH ₃	F	H	OH	H	H
XVIII-17-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	Et	OCH ₃	F	H	OH	H	H
XVIII-17-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	OCH ₃	F	H	OH	H	H
XVIII-17-8	p-F—Ph	*	H	*	Et	OCH ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVIII-18

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVIII-18-1	p-Cl—Ph	H	H	H	Et	OCH ₃	F	H	OH	H	H
XVIII-18-2	p-Cl—Ph	H	H	CH ₃	Et	OCH ₃	F	H	OH	H	H
XVIII-18-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	Et	OCH ₃	F	H	OH	H	H
XVIII-18-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	OCH ₃	F	H	OH	H	H
XVIII-18-5	p-Cl—Ph	H	H	CH ₂ Ph	Et	OCH ₃	F	H	OH	H	H
XVIII-18-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	Et	OCH ₃	F	H	OH	H	H
XVIII-18-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	OCH ₃	F	H	OH	H	H
XVIII-18-8	p-Cl—Ph	*	H	*	Et	OCH ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVIII-19

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVIII-19-1	p-Br—Ph	H	H	H	Et	OCH ₃	F	H	OH	H	H
XVIII-19-2	p-Br—Ph	H	H	CH ₃	Et	OCH ₃	F	H	OH	H	H
XVIII-19-3	p-Br—Ph	H	H	CH(CH ₃) ₂	Et	OCH ₃	F	H	OH	H	H
XVIII-19-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	OCH ₃	F	H	OH	H	H
XVIII-19-5	p-Br—Ph	H	H	CH ₂ Ph	Et	OCH ₃	F	H	OH	H	H
XVIII-19-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	Et	OCH ₃	F	H	OH	H	H
XVIII-19-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	OCH ₃	F	H	OH	H	H
XVIII-19-8	p-Br—Ph	*	H	*	Et	OCH ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVIII-20

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVIII-20-1	p-I—Ph	H	H	H	Et	OCH ₃	F	H	OH	H	H
XVIII-20-2	p-I—Ph	H	H	CH ₃	Et	OCH ₃	F	H	OH	H	H
XVIII-20-3	p-I—Ph	H	H	CH(CH ₃) ₂	Et	OCH ₃	F	H	OH	H	H
XVIII-20-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	OCH ₃	F	H	OH	H	H
XVIII-20-5	p-I—Ph	H	H	CH ₂ Ph	Et	OCH ₃	F	H	OH	H	H
XVIII-20-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	Et	OCH ₃	F	H	OH	H	H
XVIII-20-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	OCH ₃	F	H	OH	H	H
XVIII-20-8	p-I—Ph	*	H	*	Et	OCH ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVIII-21

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVIII-21-1	CH ₃	H	H	H	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-21-2	CH ₃	H	H	CH ₃	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-21-3	CH ₃	H	H	CH(CH ₃) ₂	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-21-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-21-5	CH ₃	H	H	CH ₂ Ph	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-21-6	CH ₃	H	H	CH ₂ -indol-3-yl	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-21-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-21-8	CH ₃	*	H	*	ⁱ Pr	OCH ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVIII-22

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVIII-22-1	Et	H	H	H	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-22-2	Et	H	H	CH ₃	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-22-3	Et	H	H	CH(CH ₃) ₂	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-22-4	Et	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-22-5	Et	H	H	CH ₂ Ph	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-22-6	Et	H	H	CH ₂ -indol-3-yl	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-22-7	Et	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-22-8	Et	*	H	*	ⁱ Pr	OCH ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVIII-23

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVIII-23-1	ⁱ Pr	H	H	H	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-23-2	ⁱ Pr	H	H	CH ₃	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-23-3	ⁱ Pr	H	H	CH(CH ₃) ₂	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-23-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-23-5	ⁱ Pr	H	H	CH ₂ Ph	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-23-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-23-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-23-8	ⁱ Pr	*	H	*	ⁱ Pr	OCH ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

391

TABLE XVIII-24

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVIII-24-1	^t Bu	H	H	H	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-24-2	^t Bu	H	H	CH ₃	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-24-3	^t Bu	H	H	CH(CH ₃) ₂	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-24-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-24-5	^t Bu	H	H	CH ₂ Ph	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-24-6	^t Bu	H	H	CH ₂ -indol-3-yl	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-24-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-24-8	^t Bu	*	H	*	ⁱ Pr	OCH ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVIII-25

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVIII-25-1	Ph	H	H	H	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-25-2	Ph	H	H	CH ₃	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-25-3	Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-25-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-25-5	Ph	H	H	CH ₂ Ph	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-25-6	Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-25-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-25-8	Ph	*	H	*	ⁱ Pr	OCH ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVIII-26

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVIII-26-1	p-Me—Ph	H	H	H	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-26-2	p-Me—Ph	H	H	CH ₃	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-26-3	p-Me—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-26-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-26-5	p-Me—Ph	H	H	CH ₂ Ph	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-26-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-26-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-26-8	p-Me—Ph	*	H	*	ⁱ Pr	OCH ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVIII-27

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVIII-27-1	p-F—Ph	H	H	H	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-27-2	p-F—Ph	H	H	CH ₃	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-27-3	p-F—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-27-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-27-5	p-F—Ph	H	H	CH ₂ Ph	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-27-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-27-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-27-8	p-F—Ph	*	H	*	ⁱ Pr	OCH ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVIII-28

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVIII-28-1	p-Cl—Ph	H	H	H	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-28-2	p-Cl—Ph	H	H	CH ₃	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-28-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-28-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-28-5	p-Cl—Ph	H	H	CH ₂ Ph	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-28-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-28-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-28-8	p-Cl—Ph	*	H	*	ⁱ Pr	OCH ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

393

TABLE XVIII-29

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVIII-29-1	p-Br—Ph	H	H	H	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-29-2	p-Br—Ph	H	H	CH ₃	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-29-3	p-Br—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-29-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-29-5	p-Br—Ph	H	H	CH ₂ Ph	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-29-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-29-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-29-8	p-Br—Ph	*	H	*	ⁱ Pr	OCH ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVIII-30

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVIII-30-1	p-I—Ph	H	H	H	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-30-2	p-I—Ph	H	H	CH ₃	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-30-3	p-I—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-30-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-30-5	p-I—Ph	H	H	CH ₂ Ph	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-30-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-30-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	OCH ₃	F	H	OH	H	H
XVIII-30-8	p-I—Ph	*	H	*	ⁱ Pr	OCH ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVIII-31

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVIII-31-1	CH ₃	H	H	H	ⁿ Bu	OCH ₃	F	H	OH	H	H
XVIII-31-2	CH ₃	H	H	CH ₃	ⁿ Bu	OCH ₃	F	H	OH	H	H
XVIII-31-3	CH ₃	H	H	CH(CH ₃) ₂	ⁿ Bu	OCH ₃	F	H	OH	H	H
XVIII-31-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	OCH ₃	F	H	OH	H	H
XVIII-31-5	CH ₃	H	H	CH ₂ Ph	ⁿ Bu	OCH ₃	F	H	OH	H	H
XVIII-31-6	CH ₃	H	H	CH ₂ -indol-3-yl	ⁿ Bu	OCH ₃	F	H	OH	H	H
XVIII-31-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	OCH ₃	F	H	OH	H	H
XVIII-31-8	CH ₃	*	H	*	ⁿ Bu	OCH ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVIII-32

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVIII-32-1	Et	H	H	H	ⁿ Bu	OCH ₃	F	H	OH	H	H
XVIII-32-2	Et	H	H	CH ₃	ⁿ Bu	OCH ₃	F	H	OH	H	H
XVIII-32-3	Et	H	H	CH(CH ₃) ₂	ⁿ Bu	OCH ₃	F	H	OH	H	H
XVIII-32-4	Et	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	OCH ₃	F	H	OH	H	H
XVIII-32-5	Et	H	H	CH ₂ Ph	ⁿ Bu	OCH ₃	F	H	OH	H	H
XVIII-32-6	Et	H	H	CH ₂ -indol-3-yl	ⁿ Bu	OCH ₃	F	H	OH	H	H
XVIII-32-7	Et	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	OCH ₃	F	H	OH	H	H
XVIII-32-8	Et	*	H	*	ⁿ Bu	OCH ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVIII-33

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVIII-33-1	ⁱ Pr	H	H	H	ⁿ Bu	OCH ₃	F	H	OH	H	H
XVIII-33-2	ⁱ Pr	H	H	CH ₃	ⁿ Bu	OCH ₃	F	H	OH	H	H
XVIII-33-3	ⁱ Pr	H	H	CH(CH ₃) ₂	ⁿ Bu	OCH ₃	F	H	OH	H	H
XVIII-33-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	OCH ₃	F	H	OH	H	H
XVIII-33-5	ⁱ Pr	H	H	CH ₂ Ph	ⁿ Bu	OCH ₃	F	H	OH	H	H
XVIII-33-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	ⁿ Bu	OCH ₃	F	H	OH	H	H
XVIII-33-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	OCH ₃	F	H	OH	H	H
XVIII-33-8	ⁱ Pr	*	H	*	ⁿ Bu	OCH ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVIII-34

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVIII-34-1	^t Bu	H	H	H	^t Bu	OCH ₃	F	H	OH	H	H
XVIII-34-2	^t Bu	H	H	CH ₃	^t Bu	OCH ₃	F	H	OH	H	H
XVIII-34-3	^t Bu	H	H	CH(CH ₃) ₂	^t Bu	OCH ₃	F	H	OH	H	H
XVIII-34-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	^t Bu	OCH ₃	F	H	OH	H	H
XVIII-34-5	^t Bu	H	H	CH ₂ Ph	^t Bu	OCH ₃	F	H	OH	H	H
XVIII-34-6	^t Bu	H	H	CH ₂ -indol-3-yl	^t Bu	OCH ₃	F	H	OH	H	H
XVIII-34-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	^t Bu	OCH ₃	F	H	OH	H	H
XVIII-34-8	^t Bu	*	H	*	^t Bu	OCH ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVIII-35

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVIII-35-1	Ph	H	H	H	^t Bu	OCH ₃	F	H	OH	H	H
XVIII-35-2	Ph	H	H	CH ₃	^t Bu	OCH ₃	F	H	OH	H	H
XVIII-35-3	Ph	H	H	CH(CH ₃) ₂	^t Bu	OCH ₃	F	H	OH	H	H
XVIII-35-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	^t Bu	OCH ₃	F	H	OH	H	H
XVIII-35-5	Ph	H	H	CH ₂ Ph	^t Bu	OCH ₃	F	H	OH	H	H
XVIII-35-6	Ph	H	H	CH ₂ -indol-3-yl	^t Bu	OCH ₃	F	H	OH	H	H
XVIII-35-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	^t Bu	OCH ₃	F	H	OH	H	H
XVIII-35-8	Ph	*	H	*	^t Bu	OCH ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVIII-36

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVIII-36-1	p-Me—Ph	H	H	H	^t Bu	OCH ₃	F	H	OH	H	H
XVIII-36-2	p-Me—Ph	H	H	CH ₃	^t Bu	OCH ₃	F	H	OH	H	H
XVIII-36-3	p-Me—Ph	H	H	CH(CH ₃) ₂	^t Bu	OCH ₃	F	H	OH	H	H
XVIII-36-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	^t Bu	OCH ₃	F	H	OH	H	H
XVIII-36-5	p-Me—Ph	H	H	CH ₂ Ph	^t Bu	OCH ₃	F	H	OH	H	H
XVIII-36-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	^t Bu	OCH ₃	F	H	OH	H	H
XVIII-36-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	^t Bu	OCH ₃	F	H	OH	H	H
XVIII-36-8	p-Me—Ph	*	H	*	^t Bu	OCH ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVIII-37

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVIII-37-1	p-F—Ph	H	H	H	^t Bu	OCH ₃	F	H	OH	H	H
XVIII-37-2	p-F—Ph	H	H	CH ₃	^t Bu	OCH ₃	F	H	OH	H	H
XVIII-37-3	p-F—Ph	H	H	CH(CH ₃) ₂	^t Bu	OCH ₃	F	H	OH	H	H
XVIII-37-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	^t Bu	OCH ₃	F	H	OH	H	H
XVIII-37-5	p-F—Ph	H	H	CH ₂ Ph	^t Bu	OCH ₃	F	H	OH	H	H
XVIII-37-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	^t Bu	OCH ₃	F	H	OH	H	H
XVIII-37-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	^t Bu	OCH ₃	F	H	OH	H	H
XVIII-37-8	p-F—Ph	*	H	*	^t Bu	OCH ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVIII-38

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVIII-38-1	p-Cl—Ph	H	H	H	^t Bu	OCH ₃	F	H	OH	H	H
XVIII-38-2	p-Cl—Ph	H	H	CH ₃	^t Bu	OCH ₃	F	H	OH	H	H
XVIII-38-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	^t Bu	OCH ₃	F	H	OH	H	H
XVIII-38-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	^t Bu	OCH ₃	F	H	OH	H	H
XVIII-38-5	p-Cl—Ph	H	H	CH ₂ Ph	^t Bu	OCH ₃	F	H	OH	H	H
XVIII-38-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	^t Bu	OCH ₃	F	H	OH	H	H
XVIII-38-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	^t Bu	OCH ₃	F	H	OH	H	H
XVIII-38-8	p-Cl—Ph	*	H	*	^t Bu	OCH ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVIII-39

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVIII-39-1	p-Br—Ph	H	H	H	^t Bu	OCH ₃	F	H	OH	H	H
XVIII-39-2	p-Br—Ph	H	H	CH ₃	^t Bu	OCH ₃	F	H	OH	H	H
XVIII-39-3	p-Br—Ph	H	H	CH(CH ₃) ₂	^t Bu	OCH ₃	F	H	OH	H	H
XVIII-39-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	^t Bu	OCH ₃	F	H	OH	H	H
XVIII-39-5	p-Br—Ph	H	H	CH ₂ Ph	^t Bu	OCH ₃	F	H	OH	H	H
XVIII-39-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	^t Bu	OCH ₃	F	H	OH	H	H
XVIII-39-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	^t Bu	OCH ₃	F	H	OH	H	H
XVIII-39-8	p-Br—Ph	*	H	*	^t Bu	OCH ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVIII-40

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVIII-40-1	p-I—Ph	H	H	H	^t Bu	OCH ₃	F	H	OH	H	H
XVIII-40-2	p-I—Ph	H	H	CH ₃	^t Bu	OCH ₃	F	H	OH	H	H
XVIII-40-3	p-I—Ph	H	H	CH(CH ₃) ₂	^t Bu	OCH ₃	F	H	OH	H	H
XVIII-40-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	^t Bu	OCH ₃	F	H	OH	H	H
XVIII-40-5	p-I—Ph	H	H	CH ₂ Ph	^t Bu	OCH ₃	F	H	OH	H	H
XVIII-40-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	^t Bu	OCH ₃	F	H	OH	H	H
XVIII-40-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	^t Bu	OCH ₃	F	H	OH	H	H
XVIII-40-8	p-I—Ph	*	H	*	^t Bu	OCH ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVIII-41

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVIII-41-1	CH ₃	H	H	H	Bz	OCH ₃	F	H	OH	H	H
XVIII-41-2	CH ₃	H	H	CH ₃	Bz	OCH ₃	F	H	OH	H	H
XVIII-41-3	CH ₃	H	H	CH(CH ₃) ₂	Bz	OCH ₃	F	H	OH	H	H
XVIII-41-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	Bz	OCH ₃	F	H	OH	H	H
XVIII-41-5	CH ₃	H	H	CH ₂ Ph	Bz	OCH ₃	F	H	OH	H	H
XVIII-41-6	CH ₃	H	H	CH ₂ -indol-3-yl	Bz	OCH ₃	F	H	OH	H	H
XVIII-41-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	Bz	OCH ₃	F	H	OH	H	H
XVIII-41-8	CH ₃	*	H	*	Bz	OCH ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVIII-42

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVIII-42-1	Et	H	H	H	Bz	OCH ₃	F	H	OH	H	H
XVIII-42-2	Et	H	H	CH ₃	Bz	OCH ₃	F	H	OH	H	H
XVIII-42-3	Et	H	H	CH(CH ₃) ₂	Bz	OCH ₃	F	H	OH	H	H
XVIII-42-4	Et	H	H	CH ₂ CH(CH ₃) ₂	Bz	OCH ₃	F	H	OH	H	H
XVIII-42-5	Et	H	H	CH ₂ Ph	Bz	OCH ₃	F	H	OH	H	H
XVIII-42-6	Et	H	H	CH ₂ -indol-3-yl	Bz	OCH ₃	F	H	OH	H	H
XVIII-42-7	Et	H	H	CH ₂ CH ₂ SCH ₃	Bz	OCH ₃	F	H	OH	H	H
XVIII-42-8	Et	*	H	*	Bz	OCH ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVIII-43

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVIII-43-1	^t Pr	H	H	H	Bz	OCH ₃	F	H	OH	H	H
XVIII-43-2	^t Pr	H	H	CH ₃	Bz	OCH ₃	F	H	OH	H	H
XVIII-43-3	^t Pr	H	H	CH(CH ₃) ₂	Bz	OCH ₃	F	H	OH	H	H
XVIII-43-4	^t Pr	H	H	CH ₂ CH(CH ₃) ₂	Bz	OCH ₃	F	H	OH	H	H
XVIII-43-5	^t Pr	H	H	CH ₂ Ph	Bz	OCH ₃	F	H	OH	H	H
XVIII-43-6	^t Pr	H	H	CH ₂ -indol-3-yl	Bz	OCH ₃	F	H	OH	H	H
XVIII-43-7	^t Pr	H	H	CH ₂ CH ₂ SCH ₃	Bz	OCH ₃	F	H	OH	H	H
XVIII-43-8	^t Pr	*	H	*	Bz	OCH ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVIII-44

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVIII-44-1	^t Bu	H	H	H	Bz	OCH ₃	F	H	OH	H	H
XVIII-44-2	^t Bu	H	H	CH ₃	Bz	OCH ₃	F	H	OH	H	H
XVIII-44-3	^t Bu	H	H	CH(CH ₃) ₂	Bz	OCH ₃	F	H	OH	H	H
XVIII-44-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	Bz	OCH ₃	F	H	OH	H	H
XVIII-44-5	^t Bu	H	H	CH ₂ Ph	Bz	OCH ₃	F	H	OH	H	H
XVIII-44-6	^t Bu	H	H	CH ₂ -indol-3-yl	Bz	OCH ₃	F	H	OH	H	H
XVIII-44-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	Bz	OCH ₃	F	H	OH	H	H
XVIII-44-8	^t Bu	*	H	*	Bz	OCH ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVIII-45

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVIII-45-1	Ph	H	H	H	Bz	OCH ₃	F	H	OH	H	H
XVIII-45-2	Ph	H	H	CH ₃	Bz	OCH ₃	F	H	OH	H	H
XVIII-45-3	Ph	H	H	CH(CH ₃) ₂	Bz	OCH ₃	F	H	OH	H	H
XVIII-45-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	OCH ₃	F	H	OH	H	H
XVIII-45-5	Ph	H	H	CH ₂ Ph	Bz	OCH ₃	F	H	OH	H	H
XVIII-45-6	Ph	H	H	CH ₂ -indol-3-yl	Bz	OCH ₃	F	H	OH	H	H
XVIII-45-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	OCH ₃	F	H	OH	H	H
XVIII-45-8	Ph	*	H	*	Bz	OCH ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVIII-46

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVIII-46-1	p-Me—Ph	H	H	H	Bz	OCH ₃	F	H	OH	H	H
XVIII-46-2	p-Me—Ph	H	H	CH ₃	Bz	OCH ₃	F	H	OH	H	H
XVIII-46-3	p-Me—Ph	H	H	CH(CH ₃) ₂	Bz	OCH ₃	F	H	OH	H	H
XVIII-46-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	OCH ₃	F	H	OH	H	H
XVIII-46-5	p-Me—Ph	H	H	CH ₂ Ph	Bz	OCH ₃	F	H	OH	H	H
XVIII-46-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	Bz	OCH ₃	F	H	OH	H	H
XVIII-46-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	OCH ₃	F	H	OH	H	H
XVIII-46-8	p-Me—Ph	*	H	*	Bz	OCH ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVIII-47

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVIII-47-1	p-F—Ph	H	H	H	Bz	OCH ₃	F	H	OH	H	H
XVIII-47-2	p-F—Ph	H	H	CH ₃	Bz	OCH ₃	F	H	OH	H	H
XVIII-47-3	p-F—Ph	H	H	CH(CH ₃) ₂	Bz	OCH ₃	F	H	OH	H	H
XVIII-47-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	OCH ₃	F	H	OH	H	H
XVIII-47-5	p-F—Ph	H	H	CH ₂ Ph	Bz	OCH ₃	F	H	OH	H	H
XVIII-47-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	Bz	OCH ₃	F	H	OH	H	H
XVIII-47-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	OCH ₃	F	H	OH	H	H
XVIII-47-8	p-F—Ph	*	H	*	Bz	OCH ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVIII-48

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVIII-48-1	p-Cl—Ph	H	H	H	Bz	OCH ₃	F	H	OH	H	H
XVIII-48-2	p-Cl—Ph	H	H	CH ₃	Bz	OCH ₃	F	H	OH	H	H
XVIII-48-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	Bz	OCH ₃	F	H	OH	H	H
XVIII-48-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	OCH ₃	F	H	OH	H	H
XVIII-48-5	p-Cl—Ph	H	H	CH ₂ Ph	Bz	OCH ₃	F	H	OH	H	H
XVIII-48-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	Bz	OCH ₃	F	H	OH	H	H
XVIII-48-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	OCH ₃	F	H	OH	H	H
XVIII-48-8	p-Cl—Ph	*	H	*	Bz	OCH ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVIII-49

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVIII-49-1	p-Br—Ph	H	H	H	Bz	OCH ₃	F	H	OH	H	H
XVIII-49-2	p-Br—Ph	H	H	CH ₃	Bz	OCH ₃	F	H	OH	H	H
XVIII-49-3	p-Br—Ph	H	H	CH(CH ₃) ₂	Bz	OCH ₃	F	H	OH	H	H
XVIII-49-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	OCH ₃	F	H	OH	H	H
XVIII-49-5	p-Br—Ph	H	H	CH ₂ Ph	Bz	OCH ₃	F	H	OH	H	H
XVIII-49-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	Bz	OCH ₃	F	H	OH	H	H
XVIII-49-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	OCH ₃	F	H	OH	H	H
XVIII-49-8	p-Br—Ph	*	H	*	Bz	OCH ₃	F	H	OH	H	H

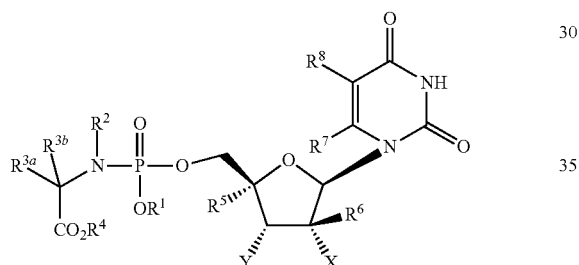
*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XVIII-50

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XVIII-50-1	p-I—Ph	H	H	H	Bz	OCH ₃	F	H	OH	H	H
XVIII-50-2	p-I—Ph	H	H	CH ₃	Bz	OCH ₃	F	H	OH	H	H
XVIII-50-3	p-I—Ph	H	H	CH(CH ₃) ₂	Bz	OCH ₃	F	H	OH	H	H
XVIII-50-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	OCH ₃	F	H	OH	H	H
XVIII-50-5	p-I—Ph	H	H	CH ₂ Ph	Bz	OCH ₃	F	H	OH	H	H
XVIII-50-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	Bz	OCH ₃	F	H	OH	H	H
XVIII-50-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	OCH ₃	F	H	OH	H	H
XVIII-50-8	p-I—Ph	*	H	*	Bz	OCH ₃	F	H	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

XIX



30

35

TABLE XIX-1

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIX-1-1	CH ₃	H	H	H	CH ₃	OCH ₃	F	F	OH	H	H
XIX-1-2	CH ₃	H	H	CH ₃	CH ₃	OCH ₃	F	F	OH	H	H
XIX-1-3	CH ₃	H	H	CH(CH ₃) ₂	CH ₃	OCH ₃	F	F	OH	H	H
XIX-1-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	OCH ₃	F	F	OH	H	H
XIX-1-5	CH ₃	H	H	CH ₂ Ph	CH ₃	OCH ₃	F	F	OH	H	H
XIX-1-6	CH ₃	H	H	CH ₂ -indol-3-yl	CH ₃	OCH ₃	F	F	OH	H	H
XIX-1-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	OCH ₃	F	F	OH	H	H
XIX-1-8	CH ₃	*	H	*	CH ₃	OCH ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIX-2

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIX-2-1	Et	H	H	H	CH ₃	OCH ₃	F	F	OH	H	H
XIX-2-2	Et	H	H	CH ₃	CH ₃	OCH ₃	F	F	OH	H	H
XIX-2-3	Et	H	H	CH(CH ₃) ₂	CH ₃	OCH ₃	F	F	OH	H	H
XIX-2-4	Et	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	OCH ₃	F	F	OH	H	H
XIX-2-5	Et	H	H	CH ₂ Ph	CH ₃	OCH ₃	F	F	OH	H	H
XIX-2-6	Et	H	H	CH ₂ -indol-3-yl	CH ₃	OCH ₃	F	F	OH	H	H
XIX-2-7	Et	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	OCH ₃	F	F	OH	H	H
XIX-2-8	Et	*	H	*	CH ₃	OCH ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIX-3

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIX-3-1	ⁱ Pr	H	H	H	CH ₃	OCH ₃	F	F	OH	H	H
XIX-3-2	ⁱ Pr	H	H	CH ₃	CH ₃	OCH ₃	F	F	OH	H	H
XIX-3-3	ⁱ Pr	H	H	CH(CH ₃) ₂	CH ₃	OCH ₃	F	F	OH	H	H
XIX-3-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	OCH ₃	F	F	OH	H	H
XIX-3-5	ⁱ Pr	H	H	CH ₂ Ph	CH ₃	OCH ₃	F	F	OH	H	H
XIX-3-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	CH ₃	OCH ₃	F	F	OH	H	H
XIX-3-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	OCH ₃	F	F	OH	H	H
XIX-3-8	ⁱ Pr	*	H	*	CH ₃	OCH ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIX-4

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIX-4-1	^t Bu	H	H	H	CH ₃	OCH ₃	F	F	OH	H	H
XIX-4-2	^t Bu	H	H	CH ₃	CH ₃	OCH ₃	F	F	OH	H	H
XIX-4-3	^t Bu	H	H	CH(CH ₃) ₂	CH ₃	OCH ₃	F	F	OH	H	H
XIX-4-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	OCH ₃	F	F	OH	H	H
XIX-4-5	^t Bu	H	H	CH ₂ Ph	CH ₃	OCH ₃	F	F	OH	H	H
XIX-4-6	^t Bu	H	H	CH ₂ -indol-3-yl	CH ₃	OCH ₃	F	F	OH	H	H
XIX-4-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	OCH ₃	F	F	OH	H	H
XIX-4-8	^t Bu	*	H	*	CH ₃	OCH ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIX-5

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIX-5-1	Ph	H	H	H	CH ₃	OCH ₃	F	F	OH	H	H
XIX-5-2	Ph	H	H	CH ₃	CH ₃	OCH ₃	F	F	OH	H	H
XIX-5-3	Ph	H	H	CH(CH ₃) ₂	CH ₃	OCH ₃	F	F	OH	H	H
XIX-5-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	OCH ₃	F	F	OH	H	H
XIX-5-5	Ph	H	H	CH ₂ Ph	CH ₃	OCH ₃	F	F	OH	H	H
XIX-5-6	Ph	H	H	CH ₂ -indol-3-yl	CH ₃	OCH ₃	F	F	OH	H	H
XIX-5-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	OCH ₃	F	F	OH	H	H
XIX-5-8	Ph	*	H	*	CH ₃	OCH ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIX-6

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIX-6-1	p-Me—Ph	H	H	H	CH ₃	OCH ₃	F	F	OH	H	H
XIX-6-2	p-Me—Ph	H	H	CH ₃	CH ₃	OCH ₃	F	F	OH	H	H
XIX-6-3	p-Me—Ph	H	H	CH(CH ₃) ₂	CH ₃	OCH ₃	F	F	OH	H	H
XIX-6-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	OCH ₃	F	F	OH	H	H
XIX-6-5	p-Me—Ph	H	H	CH ₂ Ph	CH ₃	OCH ₃	F	F	OH	H	H
XIX-6-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	OCH ₃	F	F	OH	H	H
XIX-6-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	OCH ₃	F	F	OH	H	H
XIX-6-8	p-Me—Ph	*	H	*	CH ₃	OCH ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIX-7

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIX-7-1	p-F—Ph	H	H	H	CH ₃	OCH ₃	F	F	OH	H	H
XIX-7-2	p-F—Ph	H	H	CH ₃	CH ₃	OCH ₃	F	F	OH	H	H
XIX-7-3	p-F—Ph	H	H	CH(CH ₃) ₂	CH ₃	OCH ₃	F	F	OH	H	H
XIX-7-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	OCH ₃	F	F	OH	H	H
XIX-7-6	p-F—Ph	H	H	CH ₂ Ph	CH ₃	OCH ₃	F	F	OH	H	H
XIX-7-7	p-F—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	OCH ₃	F	F	OH	H	H
XIX-7-8	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	OCH ₃	F	F	OH	H	H
XIX-7-20	p-F—Ph	*	H	*	CH ₃	OCH ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIX-8

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIX-8-1	p-Cl—Ph	H	H	H	CH ₃	OCH ₃	F	F	OH	H	H
XIX-8-2	p-Cl—Ph	H	H	CH ₃	CH ₃	OCH ₃	F	F	OH	H	H
XIX-8-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	CH ₃	OCH ₃	F	F	OH	H	H
XIX-8-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	OCH ₃	F	F	OH	H	H
XIX-8-5	p-Cl—Ph	H	H	CH ₂ Ph	CH ₃	OCH ₃	F	F	OH	H	H
XIX-8-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	OCH ₃	F	F	OH	H	H
XIX-8-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	OCH ₃	F	F	OH	H	H
XIX-8-8	p-Cl—Ph	*	H	*	CH ₃	OCH ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIX-9

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIX-9-1	p-Br—Ph	H	H	H	CH ₃	OCH ₃	F	F	OH	H	H
XIX-9-2	p-Br—Ph	H	H	CH ₃	CH ₃	OCH ₃	F	F	OH	H	H
XIX-9-3	p-Br—Ph	H	H	CH(CH ₃) ₂	CH ₃	OCH ₃	F	F	OH	H	H
XIX-9-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	OCH ₃	F	F	OH	H	H
XIX-9-6	p-Br—Ph	H	H	CH ₂ Ph	CH ₃	OCH ₃	F	F	OH	H	H
XIX-9-7	p-Br—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	OCH ₃	F	F	OH	H	H
XIX-9-8	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	OCH ₃	F	F	OH	H	H
XIX-9-20	p-Br—Ph	*	H	*	CH ₃	OCH ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIX-10

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIX-10-1	p-I—Ph	H	H	H	CH ₃	OCH ₃	F	F	OH	H	H
XIX-10-2	p-I—Ph	H	H	CH ₃	CH ₃	OCH ₃	F	F	OH	H	H
XIX-10-3	p-I—Ph	H	H	CH(CH ₃) ₂	CH ₃	OCH ₃	F	F	OH	H	H
XIX-10-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	OCH ₃	F	F	OH	H	H
XIX-10-5	p-I—Ph	H	H	CH ₂ Ph	CH ₃	OCH ₃	F	F	OH	H	H
XIX-10-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	OCH ₃	F	F	OH	H	H
XIX-10-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	OCH ₃	F	F	OH	H	H
XIX-10-8	p-I—Ph	*	H	*	CH ₃	OCH ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIX-11

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIX-11-1	CH ₃	H	H	H	Et	OCH ₃	F	F	OH	H	H
XIX-11-2	CH ₃	H	H	CH ₃	Et	OCH ₃	F	F	OH	H	H
XIX-11-3	CH ₃	H	H	CH(CH ₃) ₂	Et	OCH ₃	F	F	OH	H	H
XIX-11-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	Et	OCH ₃	F	F	OH	H	H
XIX-11-5	CH ₃	H	H	CH ₂ Ph	Et	OCH ₃	F	F	OH	H	H
XIX-11-6	CH ₃	H	H	CH ₂ -indol-3-yl	Et	OCH ₃	F	F	OH	H	H
XIX-11-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	Et	OCH ₃	F	F	OH	H	H
XIX-11-8	CH ₃	*	H	*	Et	OCH ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIX-12

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIX-12-1	Et	H	H	H	Et	OCH ₃	F	F	OH	H	H
XIX-12-2	Et	H	H	CH ₃	Et	OCH ₃	F	F	OH	H	H
XIX-12-3	Et	H	H	CH(CH ₃) ₂	Et	OCH ₃	F	F	OH	H	H
XIX-12-4	Et	H	H	CH ₂ CH(CH ₃) ₂	Et	OCH ₃	F	F	OH	H	H
XIX-12-5	Et	H	H	CH ₂ Ph	Et	OCH ₃	F	F	OH	H	H

TABLE XIX-12-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIX-12-6	Et	H	H	CH ₂ -indol-3-yl	Et	OCH ₃	F	F	OH	H	H
XIX-12-7	Et	H	H	CH ₂ CH ₂ SCH ₃	Et	OCH ₃	F	F	OH	H	H
XIX-12-8	Et	*	H	*	Et	OCH ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

407

TABLE XIX-13

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIX-13-1	ⁱ Pr	H	H	H	Et	OCH ₃	F	F	OH	H	H
XIX-13-2	ⁱ Pr	H	H	CH ₃	Et	OCH ₃	F	F	OH	H	H
XIX-13-3	ⁱ Pr	H	H	CH(CH ₃) ₂	Et	OCH ₃	F	F	OH	H	H
XIX-13-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	Et	OCH ₃	F	F	OH	H	H
XIX-13-5	ⁱ Pr	H	H	CH ₂ Ph	Et	OCH ₃	F	F	OH	H	H
XIX-13-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	Et	OCH ₃	F	F	OH	H	H
XIX-13-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	Et	OCH ₃	F	F	OH	H	H
XIX-13-8	ⁱ Pr	*	H	*	Et	OCH ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIX-14

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIX-14-1	^t Bu	H	H	H	Et	OCH ₃	F	F	OH	H	H
XIX-14-2	^t Bu	H	H	CH ₃	Et	OCH ₃	F	F	OH	H	H
XIX-14-3	^t Bu	H	H	CH(CH ₃) ₂	Et	OCH ₃	F	F	OH	H	H
XIX-14-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	Et	OCH ₃	F	F	OH	H	H

408

TABLE XIX-14-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIX-14-5	^t Bu	H	H	CH ₂ Ph	Et	OCH ₃	F	F	OH	H	H
XIX-14-6	^t Bu	H	H	CH ₂ -indol-3-yl	Et	OCH ₃	F	F	OH	H	H
XIX-14-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	Et	OCH ₃	F	F	OH	H	H
XIX-14-8	^t Bu	*	H	*	Et	OCH ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIX-15

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIX-15-1	Ph	H	H	H	Et	OCH ₃	F	F	OH	H	H
XIX-15-2	Ph	H	H	CH ₃	Et	OCH ₃	F	F	OH	H	H
XIX-15-3	Ph	H	H	CH(CH ₃) ₂	Et	OCH ₃	F	F	OH	H	H
XIX-15-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	OCH ₃	F	F	OH	H	H
XIX-15-5	Ph	H	H	CH ₂ Ph	Et	OCH ₃	F	F	OH	H	H
XIX-15-6	Ph	H	H	CH ₂ -indol-3-yl	Et	OCH ₃	F	F	OH	H	H
XIX-15-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	OCH ₃	F	F	OH	H	H
XIX-15-8	Ph	*	H	*	Et	OCH ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIX-16

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIX-16-1	p-Me—Ph	H	H	H	Et	OCH ₃	F	F	OH	H	H
XIX-16-2	p-Me—Ph	H	H	CH ₃	Et	OCH ₃	F	F	OH	H	H
XIX-16-3	p-Me—Ph	H	H	CH(CH ₃) ₂	Et	OCH ₃	F	F	OH	H	H
XIX-16-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	OCH ₃	F	F	OH	H	H
XIX-16-5	p-Me—Ph	H	H	CH ₂ Ph	Et	OCH ₃	F	F	OH	H	H
XIX-16-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	Et	OCH ₃	F	F	OH	H	H
XIX-16-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	OCH ₃	F	F	OH	H	H
XIX-16-8	p-Me—Ph	*	H	*	Et	OCH ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIX-17

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIX-17-1	p-F—Ph	H	H	H	Et	OCH ₃	F	F	OH	H	H
XIX-17-2	p-F—Ph	H	H	CH ₃	Et	OCH ₃	F	F	OH	H	H
XIX-17-3	p-F—Ph	H	H	CH(CH ₃) ₂	Et	OCH ₃	F	F	OH	H	H
XIX-17-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	OCH ₃	F	F	OH	H	H
XIX-17-5	p-F—Ph	H	H	CH ₂ Ph	Et	OCH ₃	F	F	OH	H	H
XIX-17-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	Et	OCH ₃	F	F	OH	H	H
XIX-17-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	OCH ₃	F	F	OH	H	H
XIX-17-8	p-F—Ph	*	H	*	Et	OCH ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIX-18

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIX-18-1	p-Cl—Ph	H	H	H	Et	OCH ₃	F	F	OH	H	H
XIX-18-2	p-Cl—Ph	H	H	CH ₃	Et	OCH ₃	F	F	OH	H	H
XIX-18-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	Et	OCH ₃	F	F	OH	H	H
XIX-18-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	OCH ₃	F	F	OH	H	H
XIX-18-5	p-Cl—Ph	H	H	CH ₂ Ph	Et	OCH ₃	F	F	OH	H	H

TABLE XIX-18-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIX-18-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	Et	OCH ₃	F	F	OH	H	H
XIX-18-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	OCH ₃	F	F	OH	H	H
XIX-18-8	p-Cl—Ph	*	H	*	Et	OCH ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIX-19

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIX-19-1	p-Br—Ph	H	H	H	Et	OCH ₃	F	F	OH	H	H
XIX-19-2	p-Br—Ph	H	H	CH ₃	Et	OCH ₃	F	F	OH	H	H
XIX-19-3	p-Br—Ph	H	H	CH(CH ₃) ₂	Et	OCH ₃	F	F	OH	H	H
XIX-19-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	OCH ₃	F	F	OH	H	H
XIX-19-5	p-Br—Ph	H	H	CH ₂ Ph	Et	OCH ₃	F	F	OH	H	H
XIX-19-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	Et	OCH ₃	F	F	OH	H	H
XIX-19-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	OCH ₃	F	F	OH	H	H
XIX-19-8	p-Br—Ph	*	H	*	Et	OCH ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIX-20

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷
XIX-20-1	p-I—Ph	H	H	H	Et	OCH ₃	F	F	OH	H
XIX-20-2	p-I—Ph	H	H	CH ₃	Et	OCH ₃	F	F	OH	H
XIX-20-3	p-I—Ph	H	H	CH(CH ₃) ₂	Et	OCH ₃	F	F	OH	H
XIX-20-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	OCH ₃	F	F	OH	H
XIX-20-5	p-I—Ph	H	H	CH ₂ Ph	Et	OCH ₃	F	F	OH	H
XIX-20-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	Et	OCH ₃	F	F	OH	H
XIX-20-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	OCH ₃	F	F	OH	H
XIX-20-8	p-I—Ph	*	H	*	Et	OCH ₃	F	F	OH	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIX-21

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIX-21-1	CH ₃	H	H	H	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-21-2	CH ₃	H	H	CH ₃	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-21-3	CH ₃	H	H	CH(CH ₃) ₂	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-21-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-21-5	CH ₃	H	H	CH ₂ Ph	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-21-6	CH ₃	H	H	CH ₂ -indol-3-yl	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-21-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-21-8	CH ₃	*	H	*	ⁱ Pr	OCH ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIX-22

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIX-22-1	Et	H	H	H	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-22-2	Et	H	H	CH ₃	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-22-3	Et	H	H	CH(CH ₃) ₂	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-22-4	Et	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-22-5	Et	H	H	CH ₂ Ph	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-22-6	Et	H	H	CH ₂ -indol-3-yl	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-22-7	Et	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-22-8	Et	*	H	*	ⁱ Pr	OCH ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIX-23

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIX-23-1	ⁱ Pr	H	H	H	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-23-2	ⁱ Pr	H	H	CH ₃	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-23-3	ⁱ Pr	H	H	CH(CH ₃) ₂	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-23-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-23-5	ⁱ Pr	H	H	CH ₂ Ph	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-23-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-23-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-23-8	ⁱ Pr	*	H	*	ⁱ Pr	OCH ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIX-24

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIX-24-1	^t Bu	H	H	H	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-24-2	^t Bu	H	H	CH ₃	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-24-3	^t Bu	H	H	CH(CH ₃) ₂	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-24-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-24-5	^t Bu	H	H	CH ₂ Ph	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-24-6	^t Bu	H	H	CH ₂ -indol-3-yl	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-24-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-24-8	^t Bu	*	H	*	ⁱ Pr	OCH ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIX-25

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIX-25-1	Ph	H	H	H	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-25-2	Ph	H	H	CH ₃	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-25-3	Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-25-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	OCH ₃	F	F	OH	H	H

TABLE XIX-25-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIX-25-5	Ph	H	H	CH ₂ Ph	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-25-6	Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-25-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-25-8	Ph	*	H	*	ⁱ Pr	OCH ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIX-26

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIX-26-1	p-Me—Ph	H	H	H	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-26-2	p-Me—Ph	H	H	CH ₃	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-26-3	p-Me—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-26-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-26-5	p-Me—Ph	H	H	CH ₂ Ph	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-26-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-26-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-26-8	p-Me—Ph	*	H	*	ⁱ Pr	OCH ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIX-27

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIX-27-1	p-F—Ph	H	H	H	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-27-2	p-F—Ph	H	H	CH ₃	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-27-3	p-F—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-27-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-27-5	p-F—Ph	H	H	CH ₂ Ph	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-27-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-27-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-27-8	p-F—Ph	*	H	*	ⁱ Pr	OCH ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIX-28

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIX-28-1	p-Cl—Ph	H	H	H	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-28-2	p-Cl—Ph	H	H	CH ₃	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-28-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-28-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-28-5	p-Cl—Ph	H	H	CH ₂ Ph	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-28-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-28-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-28-8	p-Cl—Ph	*	H	*	ⁱ Pr	OCH ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIX-29

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIX-29-1	p-Br—Ph	H	H	H	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-29-2	p-Br—Ph	H	H	CH ₃	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-29-3	p-Br—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-29-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-29-5	p-Br—Ph	H	H	CH ₂ Ph	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-29-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-29-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-29-8	p-Br—Ph	*	H	*	ⁱ Pr	OCH ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIX-30

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIX-30-1	p-I—Ph	H	H	H	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-30-2	p-I—Ph	H	H	CH ₃	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-30-3	p-I—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-30-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-30-5	p-I—Ph	H	H	CH ₂ Ph	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-30-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-30-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	OCH ₃	F	F	OH	H	H
XIX-30-8	p-I—Ph	*	H	*	ⁱ Pr	OCH ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIX-31

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIX-31-1	CH ₃	H	H	H	ⁿ Bu	OCH ₃	F	F	OH	H	H
XIX-31-2	CH ₃	H	H	CH ₃	ⁿ Bu	OCH ₃	F	F	OH	H	H
XIX-31-3	CH ₃	H	H	CH(CH ₃) ₂	ⁿ Bu	OCH ₃	F	F	OH	H	H
XIX-31-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	OCH ₃	F	F	OH	H	H
XIX-31-5	CH ₃	H	H	CH ₂ Ph	ⁿ Bu	OCH ₃	F	F	OH	H	H
XIX-31-6	CH ₃	H	H	CH ₂ -indol-3-yl	ⁿ Bu	OCH ₃	F	F	OH	H	H
XIX-31-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	OCH ₃	F	F	OH	H	H
XIX-31-8	CH ₃	*	H	*	ⁿ Bu	OCH ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIX-32

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIX-32-1	Et	H	H	H	ⁿ Bu	OCH ₃	F	F	OH	H	H
XIX-32-2	Et	H	H	CH ₃	ⁿ Bu	OCH ₃	F	F	OH	H	H
XIX-32-3	Et	H	H	CH(CH ₃) ₂	ⁿ Bu	OCH ₃	F	F	OH	H	H
XIX-32-4	Et	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	OCH ₃	F	F	OH	H	H
XIX-32-5	Et	H	H	CH ₂ Ph	ⁿ Bu	OCH ₃	F	F	OH	H	H
XIX-32-6	Et	H	H	CH ₂ -indol-3-yl	ⁿ Bu	OCH ₃	F	F	OH	H	H
XIX-32-7	Et	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	OCH ₃	F	F	OH	H	H
XIX-32-8	Et	*	H	*	ⁿ Bu	OCH ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIX-33

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIX-33-1	ⁱ Pr	H	H	H	ⁿ Bu	OCH ₃	F	F	OH	H	H
XIX-33-2	ⁱ Pr	H	H	CH ₃	ⁿ Bu	OCH ₃	F	F	OH	H	H
XIX-33-3	ⁱ Pr	H	H	CH(CH ₃) ₂	ⁿ Bu	OCH ₃	F	F	OH	H	H
XIX-33-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	OCH ₃	F	F	OH	H	H
XIX-33-5	ⁱ Pr	H	H	CH ₂ Ph	ⁿ Bu	OCH ₃	F	F	OH	H	H
XIX-33-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	ⁿ Bu	OCH ₃	F	F	OH	H	H
XIX-33-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	OCH ₃	F	F	OH	H	H
XIX-33-8	ⁱ Pr	*	H	*	ⁿ Bu	OCH ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIX-34

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIX-34-1	^t Bu	H	H	H	^t Bu	OCH ₃	F	F	OH	H	H
XIX-34-2	^t Bu	H	H	CH ₃	^t Bu	OCH ₃	F	F	OH	H	H
XIX-34-3	^t Bu	H	H	CH(CH ₃) ₂	^t Bu	OCH ₃	F	F	OH	H	H
XIX-34-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	^t Bu	OCH ₃	F	F	OH	H	H
XIX-34-5	^t Bu	H	H	CH ₂ Ph	^t Bu	OCH ₃	F	F	OH	H	H
XIX-34-6	^t Bu	H	H	CH ₂ -indol-3-yl	^t Bu	OCH ₃	F	F	OH	H	H
XIX-34-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	^t Bu	OCH ₃	F	F	OH	H	H
XIX-34-8	^t Bu	*	H	*	^t Bu	OCH ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIX-35

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIX-35-1	Ph	H	H	H	^t Bu	OCH ₃	F	F	OH	H	H
XIX-35-2	Ph	H	H	CH ₃	^t Bu	OCH ₃	F	F	OH	H	H
XIX-35-3	Ph	H	H	CH(CH ₃) ₂	^t Bu	OCH ₃	F	F	OH	H	H
XIX-35-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	^t Bu	OCH ₃	F	F	OH	H	H
XIX-35-5	Ph	H	H	CH ₂ Ph	^t Bu	OCH ₃	F	F	OH	H	H
XIX-35-6	Ph	H	H	CH ₂ -indol-3-yl	^t Bu	OCH ₃	F	F	OH	H	H
XIX-35-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	^t Bu	OCH ₃	F	F	OH	H	H
XIX-35-8	Ph	*	H	*	^t Bu	OCH ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIX-36

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIX-36-1	p-Me—Ph	H	H	H	^t Bu	OCH ₃	F	F	OH	H	H
XIX-36-2	p-Me—Ph	H	H	CH ₃	^t Bu	OCH ₃	F	F	OH	H	H
XIX-36-3	p-Me—Ph	H	H	CH(CH ₃) ₂	^t Bu	OCH ₃	F	F	OH	H	H
XIX-36-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	^t Bu	OCH ₃	F	F	OH	H	H
XIX-36-5	p-Me—Ph	H	H	CH ₂ Ph	^t Bu	OCH ₃	F	F	OH	H	H
XIX-36-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	^t Bu	OCH ₃	F	F	OH	H	H
XIX-36-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	^t Bu	OCH ₃	F	F	OH	H	H
XIX-36-8	p-Me—Ph	*	H	*	^t Bu	OCH ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIX-37

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIX-37-1	p-F—Ph	H	H	H	^t Bu	OCH ₃	F	F	OH	H	H
XIX-37-2	p-F—Ph	H	H	CH ₃	^t Bu	OCH ₃	F	F	OH	H	H
XIX-37-3	p-F—Ph	H	H	CH(CH ₃) ₂	^t Bu	OCH ₃	F	F	OH	H	H
XIX-37-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	^t Bu	OCH ₃	F	F	OH	H	H
XIX-37-5	p-F—Ph	H	H	CH ₂ Ph	^t Bu	OCH ₃	F	F	OH	H	H
XIX-37-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	^t Bu	OCH ₃	F	F	OH	H	H
XIX-37-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	^t Bu	OCH ₃	F	F	OH	H	H
XIX-37-8	p-F—Ph	*	H	*	^t Bu	OCH ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIX-38

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIX-38-1	p-Cl—Ph	H	H	H	^t Bu	OCH ₃	F	F	OH	H	H
XIX-38-2	p-Cl—Ph	H	H	CH ₃	^t Bu	OCH ₃	F	F	OH	H	H
XIX-38-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	^t Bu	OCH ₃	F	F	OH	H	H
XIX-38-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	^t Bu	OCH ₃	F	F	OH	H	H
XIX-38-5	p-Cl—Ph	H	H	CH ₂ Ph	^t Bu	OCH ₃	F	F	OH	H	H
XIX-38-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	^t Bu	OCH ₃	F	F	OH	H	H
XIX-38-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	^t Bu	OCH ₃	F	F	OH	H	H
XIX-38-8	p-Cl—Ph	*	H	*	^t Bu	OCH ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIX-39

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIX-39-1	p-Br—Ph	H	H	H	^t Bu	OCH ₃	F	F	OH	H	H
XIX-39-2	p-Br—Ph	H	H	CH ₃	^t Bu	OCH ₃	F	F	OH	H	H
XIX-39-3	p-Br—Ph	H	H	CH(CH ₃) ₂	^t Bu	OCH ₃	F	F	OH	H	H
XIX-39-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	^t Bu	OCH ₃	F	F	OH	H	H
XIX-39-5	p-Br—Ph	H	H	CH ₂ Ph	^t Bu	OCH ₃	F	F	OH	H	H
XIX-39-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	^t Bu	OCH ₃	F	F	OH	H	H
XIX-39-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	^t Bu	OCH ₃	F	F	OH	H	H
XIX-39-8	p-Br—Ph	*	H	*	^t Bu	OCH ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIX-40

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIX-40-1	p-I—Ph	H	H	H	^t Bu	OCH ₃	F	F	OH	H	H
XIX-40-2	p-I—Ph	H	H	CH ₃	^t Bu	OCH ₃	F	F	OH	H	H
XIX-40-3	p-I—Ph	H	H	CH(CH ₃) ₂	^t Bu	OCH ₃	F	F	OH	H	H
XIX-40-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	^t Bu	OCH ₃	F	F	OH	H	H
XIX-40-5	p-I—Ph	H	H	CH ₂ Ph	^t Bu	OCH ₃	F	F	OH	H	H
XIX-40-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	^t Bu	OCH ₃	F	F	OH	H	H
XIX-40-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	^t Bu	OCH ₃	F	F	OH	H	H
XIX-40-8	p-I—Ph	*	H	*	^t Bu	OCH ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIX-41

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIX-41-1	CH ₃	H	H	H	Bz	OCH ₃	F	F	OH	H	H
XIX-41-2	CH ₃	H	H	CH ₃	Bz	OCH ₃	F	F	OH	H	H
XIX-41-3	CH ₃	H	H	CH(CH ₃) ₂	Bz	OCH ₃	F	F	OH	H	H
XIX-41-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	Bz	OCH ₃	F	F	OH	H	H
XIX-41-5	CH ₃	H	H	CH ₂ Ph	Bz	OCH ₃	F	F	OH	H	H
XIX-41-6	CH ₃	H	H	CH ₂ -indol-3-yl	Bz	OCH ₃	F	F	OH	H	H
XIX-41-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	Bz	OCH ₃	F	F	OH	H	H
XIX-41-8	CH ₃	*	H	*	Bz	OCH ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIX-42

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIX-42-1	Et	H	H	H	Bz	OCH ₃	F	F	OH	H	H
XIX-42-2	Et	H	H	CH ₃	Bz	OCH ₃	F	F	OH	H	H
XIX-42-3	Et	H	H	CH(CH ₃) ₂	Bz	OCH ₃	F	F	OH	H	H
XIX-42-4	Et	H	H	CH ₂ CH(CH ₃) ₂	Bz	OCH ₃	F	F	OH	H	H
XIX-42-5	Et	H	H	CH ₂ Ph	Bz	OCH ₃	F	F	OH	H	H
XIX-42-6	Et	H	H	CH ₂ -indol-3-yl	Bz	OCH ₃	F	F	OH	H	H
XIX-42-7	Et	H	H	CH ₂ CH ₂ SCH ₃	Bz	OCH ₃	F	F	OH	H	H
XIX-42-8	Et	*	H	*	Bz	OCH ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIX-43

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIX-43-1	ⁱ Pr	H	H	H	Bz	OCH ₃	F	F	OH	H	H
XIX-43-2	ⁱ Pr	H	H	CH ₃	Bz	OCH ₃	F	F	OH	H	H
XIX-43-3	ⁱ Pr	H	H	CH(CH ₃) ₂	Bz	OCH ₃	F	F	OH	H	H
XIX-43-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	Bz	OCH ₃	F	F	OH	H	H
XIX-43-5	ⁱ Pr	H	H	CH ₂ Ph	Bz	OCH ₃	F	F	OH	H	H
XIX-43-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	Bz	OCH ₃	F	F	OH	H	H
XIX-43-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	Bz	OCH ₃	F	F	OH	H	H
XIX-43-8	ⁱ Pr	*	H	*	Bz	OCH ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIX-44

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIX-44-1	^t Bu	H	H	H	Bz	OCH ₃	F	F	OH	H	H
XIX-44-2	^t Bu	H	H	CH ₃	Bz	OCH ₃	F	F	OH	H	H
XIX-44-3	^t Bu	H	H	CH(CH ₃) ₂	Bz	OCH ₃	F	F	OH	H	H
XIX-44-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	Bz	OCH ₃	F	F	OH	H	H
XIX-44-5	^t Bu	H	H	CH ₂ Ph	Bz	OCH ₃	F	F	OH	H	H
XIX-44-6	^t Bu	H	H	CH ₂ -indol-3-yl	Bz	OCH ₃	F	F	OH	H	H
XIX-44-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	Bz	OCH ₃	F	F	OH	H	H
XIX-44-8	^t Bu	*	H	*	Bz	OCH ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIX-45

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIX-45-1	Ph	H	H	H	Bz	OCH ₃	F	F	OH	H	H
XIX-45-2	Ph	H	H	CH ₃	Bz	OCH ₃	F	F	OH	H	H
XIX-45-3	Ph	H	H	CH(CH ₃) ₂	Bz	OCH ₃	F	F	OH	H	H
XIX-45-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	OCH ₃	F	F	OH	H	H

TABLE XIX-45-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIX-45-5	Ph	H	H	CH ₂ Ph	Bz	OCH ₃	F	F	OH	H	H
XIX-45-6	Ph	H	H	CH ₂ -indol-3-yl	Bz	OCH ₃	F	F	OH	H	H
XIX-45-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	OCH ₃	F	F	OH	H	H
XIX-45-8	Ph	*	H	*	Bz	OCH ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIX-46

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIX-46-1	p-Me—Ph	H	H	H	Bz	OCH ₃	F	F	OH	H	H
XIX-46-2	p-Me—Ph	H	H	CH ₃	Bz	OCH ₃	F	F	OH	H	H
XIX-46-3	p-Me—Ph	H	H	CH(CH ₃) ₂	Bz	OCH ₃	F	F	OH	H	H
XIX-46-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	OCH ₃	F	F	OH	H	H
XIX-46-5	p-Me—Ph	H	H	CH ₂ Ph	Bz	OCH ₃	F	F	OH	H	H
XIX-46-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	Bz	OCH ₃	F	F	OH	H	H
XIX-46-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	OCH ₃	F	F	OH	H	H
XIX-46-8	p-Me—Ph	*	H	*	Bz	OCH ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIX-47

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIX-47-1	p-F—Ph	H	H	H	Bz	OCH ₃	F	F	OH	H	H
XIX-47-2	p-F—Ph	H	H	CH ₃	Bz	OCH ₃	F	F	OH	H	H
XIX-47-3	p-F—Ph	H	H	CH(CH ₃) ₂	Bz	OCH ₃	F	F	OH	H	H
XIX-47-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	OCH ₃	F	F	OH	H	H
XIX-47-5	p-F—Ph	H	H	CH ₂ Ph	Bz	OCH ₃	F	F	OH	H	H
XIX-47-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	Bz	OCH ₃	F	F	OH	H	H
XIX-47-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	OCH ₃	F	F	OH	H	H
XIX-47-8	p-F—Ph	*	H	*	Bz	OCH ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIX-48

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIX-48-1	p-Cl—Ph	H	H	H	Bz	OCH ₃	F	F	OH	H	H
XIX-48-2	p-Cl—Ph	H	H	CH ₃	Bz	OCH ₃	F	F	OH	H	H
XIX-48-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	Bz	OCH ₃	F	F	OH	H	H
XIX-48-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	OCH ₃	F	F	OH	H	H
XIX-48-5	p-Cl—Ph	H	H	CH ₂ Ph	Bz	OCH ₃	F	F	OH	H	H
XIX-48-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	Bz	OCH ₃	F	F	OH	H	H
XIX-48-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	OCH ₃	F	F	OH	H	H
XIX-48-8	p-Cl—Ph	*	H	*	Bz	OCH ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIX-49

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIX-49-1	p-Br-Ph	H	H	H	Bz	OCH ₃	F	F	OH	H	H
XIX-49-2	p-Br-Ph	H	H	CH ₃	Bz	OCH ₃	F	F	OH	H	H
XIX-49-3	p-Br-Ph	H	H	CH(CH ₃) ₂	Bz	OCH ₃	F	F	OH	H	H
XIX-49-4	p-Br-Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	OCH ₃	F	F	OH	H	H
XIX-49-5	p-Br-Ph	H	H	CH ₂ Ph	Bz	OCH ₃	F	F	OH	H	H
XIX-49-6	p-Br-Ph	H	H	CH ₂ -indol-3-yl	Bz	OCH ₃	F	F	OH	H	H
XIX-49-7	p-Br-Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	OCH ₃	F	F	OH	H	H
XIX-49-8	p-Br-Ph	*	H	*	Bz	OCH ₃	F	F	OH	H	H

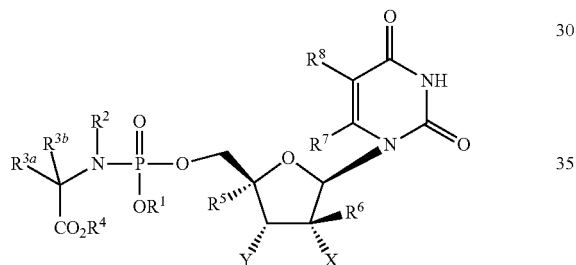
*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XIX-50

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XIX-50-1	p-I-Ph	H	H	H	Bz	OCH ₃	F	F	OH	H	H
XIX-50-2	p-I-Ph	H	H	CH ₃	Bz	OCH ₃	F	F	OH	H	H
XIX-50-3	p-I-Ph	H	H	CH(CH ₃) ₂	Bz	OCH ₃	F	F	OH	H	H
XIX-50-4	p-I-Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	OCH ₃	F	F	OH	H	H
XIX-50-5	p-I-Ph	H	H	CH ₂ Ph	Bz	OCH ₃	F	F	OH	H	H
XIX-50-6	p-I-Ph	H	H	CH ₂ -indol-3-yl	Bz	OCH ₃	F	F	OH	H	H
XIX-50-7	p-I-Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	OCH ₃	F	F	OH	H	H
XIX-50-8	p-I-Ph	*	H	*	Bz	OCH ₃	F	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

XX



30

35

TABLE XX-1

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XX-1-1	CH ₃	H	H	H	CH ₃	OCH ₃	H	F	OH	H	H
XX-1-2	CH ₃	H	H	CH ₃	CH ₃	OCH ₃	H	F	OH	H	H
XX-1-3	CH ₃	H	H	CH(CH ₃) ₂	CH ₃	OCH ₃	H	F	OH	H	H
XX-1-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	OCH ₃	H	F	OH	H	H
XX-1-5	CH ₃	H	H	CH ₂ Ph	CH ₃	OCH ₃	H	F	OH	H	H
XX-1-6	CH ₃	H	H	CH ₂ -indol-3-yl	CH ₃	OCH ₃	H	F	OH	H	H
XX-1-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	OCH ₃	H	F	OH	H	H
XX-1-8	CH ₃	*	H	*	CH ₃	OCH ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XX-2

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XX-2-1	Et	H	H	H	CH ₃	OCH ₃	H	F	OH	H	H
XX-2-2	Et	H	H	CH ₃	CH ₃	OCH ₃	H	F	OH	H	H
XX-2-3	Et	H	H	CH(CH ₃) ₂	CH ₃	OCH ₃	H	F	OH	H	H
XX-2-4	Et	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	OCH ₃	H	F	OH	H	H
XX-2-5	Et	H	H	CH ₂ Ph	CH ₃	OCH ₃	H	F	OH	H	H
XX-2-6	Et	H	H	CH ₂ -indol-3-yl	CH ₃	OCH ₃	H	F	OH	H	H
XX-2-7	Et	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	OCH ₃	H	F	OH	H	H
XX-2-8	Et	*	H	*	CH ₃	OCH ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XX-3

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XX-3-1	^t Pr	H	H	H	CH ₃	OCH ₃	H	F	OH	H	H
XX-3-2	^t Pr	H	H	CH ₃	CH ₃	OCH ₃	H	F	OH	H	H
XX-3-3	^t Pr	H	H	CH(CH ₃) ₂	CH ₃	OCH ₃	H	F	OH	H	H
XX-3-4	^t Pr	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	OCH ₃	H	F	OH	H	H
XX-3-5	^t Pr	H	H	CH ₂ Ph	CH ₃	OCH ₃	H	F	OH	H	H
XX-3-6	^t Pr	H	H	CH ₂ -indol-3-yl	CH ₃	OCH ₃	H	F	OH	H	H
XX-3-7	^t Pr	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	OCH ₃	H	F	OH	H	H
XX-3-8	^t Pr	*	H	*	CH ₃	OCH ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XX-4

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XX-4-1	^t Bu	H	H	H	CH ₃	OCH ₃	H	F	OH	H	H
XX-4-2	^t Bu	H	H	CH ₃	CH ₃	OCH ₃	H	F	OH	H	H
XX-4-3	^t Bu	H	H	CH(CH ₃) ₂	CH ₃	OCH ₃	H	F	OH	H	H
XX-4-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	OCH ₃	H	F	OH	H	H
XX-4-5	^t Bu	H	H	CH ₂ Ph	CH ₃	OCH ₃	H	F	OH	H	H
XX-4-6	^t Bu	H	H	CH ₂ -indol-3-yl	CH ₃	OCH ₃	H	F	OH	H	H
XX-4-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	OCH ₃	H	F	OH	H	H
XX-4-8	^t Bu	*	H	*	CH ₃	OCH ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XX-5

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XX-5-1	Ph	H	H	H	CH ₃	OCH ₃	H	F	OH	H	H
XX-5-2	Ph	H	H	CH ₃	CH ₃	OCH ₃	H	F	OH	H	H
XX-5-3	Ph	H	H	CH(CH ₃) ₂	CH ₃	OCH ₃	H	F	OH	H	H
XX-5-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	OCH ₃	H	F	OH	H	H
XX-5-5	Ph	H	H	CH ₂ Ph	CH ₃	OCH ₃	H	F	OH	H	H
XX-5-6	Ph	H	H	CH ₂ -indol-3-yl	CH ₃	OCH ₃	H	F	OH	H	H
XX-5-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	OCH ₃	H	F	OH	H	H
XX-5-8	Ph	*	H	*	CH ₃	OCH ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XX-6

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XX-6-1	p-Me—Ph	H	H	H	CH ₃	OCH ₃	H	F	OH	H	H
XX-6-2	p-Me—Ph	H	H	CH ₃	CH ₃	OCH ₃	H	F	OH	H	H
XX-6-3	p-Me—Ph	H	H	CH(CH ₃) ₂	CH ₃	OCH ₃	H	F	OH	H	H
XX-6-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	OCH ₃	H	F	OH	H	H
XX-6-5	p-Me—Ph	H	H	CH ₂ Ph	CH ₃	OCH ₃	H	F	OH	H	H
XX-6-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	OCH ₃	H	F	OH	H	H
XX-6-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	OCH ₃	H	F	OH	H	H
XX-6-8	p-Me—Ph	*	H	*	CH ₃	OCH ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XX-7

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XX-7-1	p-F—Ph	H	H	H	CH ₃	OCH ₃	H	F	OH	H	H
XX-7-2	p-F—Ph	H	H	CH ₃	CH ₃	OCH ₃	H	F	OH	H	H
XX-7-3	p-F—Ph	H	H	CH(CH ₃) ₂	CH ₃	OCH ₃	H	F	OH	H	H
XX-7-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	OCH ₃	H	F	OH	H	H
XX-7-6	p-F—Ph	H	H	CH ₂ Ph	CH ₃	OCH ₃	H	F	OH	H	H
XX-7-7	p-F—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	OCH ₃	H	F	OH	H	H
XX-7-8	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	OCH ₃	H	F	OH	H	H
XX-7-20	p-F—Ph	*	H	*	CH ₃	OCH ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XX-8

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XX-8-1	p-Cl—Ph	H	H	H	CH ₃	OCH ₃	H	F	OH	H	H
XX-8-2	p-Cl—Ph	H	H	CH ₃	CH ₃	OCH ₃	H	F	OH	H	H
XX-8-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	CH ₃	OCH ₃	H	F	OH	H	H
XX-8-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	OCH ₃	H	F	OH	H	H
XX-8-5	p-Cl—Ph	H	H	CH ₂ Ph	CH ₃	OCH ₃	H	F	OH	H	H
XX-8-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	OCH ₃	H	F	OH	H	H
XX-8-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	OCH ₃	H	F	OH	H	H
XX-8-8	p-Cl—Ph	*	H	*	CH ₃	OCH ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XX-9

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XX-9-1	p-Br—Ph	H	H	H	CH ₃	OCH ₃	H	F	OH	H	H
XX-9-2	p-Br—Ph	H	H	CH ₃	CH ₃	OCH ₃	H	F	OH	H	H
XX-9-3	p-Br—Ph	H	H	CH(CH ₃) ₂	CH ₃	OCH ₃	H	F	OH	H	H
XX-9-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	OCH ₃	H	F	OH	H	H
XX-9-6	p-Br—Ph	H	H	CH ₂ Ph	CH ₃	OCH ₃	H	F	OH	H	H
XX-9-7	p-Br—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	OCH ₃	H	F	OH	H	H
XX-9-8	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	OCH ₃	H	F	OH	H	H
XX-9-20	p-Br—Ph	*	H	*	CH ₃	OCH ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XX-10

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XX-10-1	p-I—Ph	H	H	H	CH ₃	OCH ₃	H	F	OH	H	H
XX-10-2	p-I—Ph	H	H	CH ₃	CH ₃	OCH ₃	H	F	OH	H	H
XX-10-3	p-I—Ph	H	H	CH(CH ₃) ₂	CH ₃	OCH ₃	H	F	OH	H	H
XX-10-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	OCH ₃	H	F	OH	H	H
XX-10-5	p-I—Ph	H	H	CH ₂ Ph	CH ₃	OCH ₃	H	F	OH	H	H
XX-10-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	OCH ₃	H	F	OH	H	H
XX-10-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	OCH ₃	H	F	OH	H	H
XX-10-8	p-I—Ph	*	H	*	CH ₃	OCH ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XX-11

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XX-11-1	CH ₃	H	H	H	Et	OCH ₃	H	F	OH	H	H
XX-11-2	CH ₃	H	H	CH ₃	Et	OCH ₃	H	F	OH	H	H
XX-11-3	CH ₃	H	H	CH(CH ₃) ₂	Et	OCH ₃	H	F	OH	H	H
XX-11-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	Et	OCH ₃	H	F	OH	H	H
XX-11-5	CH ₃	H	H	CH ₂ Ph	Et	OCH ₃	H	F	OH	H	H
XX-11-6	CH ₃	H	H	CH ₂ -indol-3-yl	Et	OCH ₃	H	F	OH	H	H
XX-11-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	Et	OCH ₃	H	F	OH	H	H
XX-11-8	CH ₃	*	H	*	Et	OCH ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XX-12

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XX-12-1	Et	H	H	H	Et	OCH ₃	H	F	OH	H	H
XX-12-2	Et	H	H	CH ₃	Et	OCH ₃	H	F	OH	H	H
XX-12-3	Et	H	H	CH(CH ₃) ₂	Et	OCH ₃	H	F	OH	H	H
XX-12-4	Et	H	H	CH ₂ CH(CH ₃) ₂	Et	OCH ₃	H	F	OH	H	H
XX-12-5	Et	H	H	CH ₂ Ph	Et	OCH ₃	H	F	OH	H	H

TABLE XX-12-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XX-12-6	Et	H	H	CH ₂ -indol-3-yl	Et	OCH ₃	H	F	OH	H	H
XX-12-7	Et	H	H	CH ₂ CH ₂ SCH ₃	Et	OCH ₃	H	F	OH	H	H
XX-12-8	Et	*	H	*	Et	OCH ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

427

TABLE XX-13

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XX-13-1	ⁱ Pr	H	H	H	Et	OCH ₃	H	F	OH	H	H
XX-13-2	ⁱ Pr	H	H	CH ₃	Et	OCH ₃	H	F	OH	H	H
XX-13-3	ⁱ Pr	H	H	CH(CH ₃) ₂	Et	OCH ₃	H	F	OH	H	H
XX-13-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	Et	OCH ₃	H	F	OH	H	H
XX-13-5	ⁱ Pr	H	H	CH ₂ Ph	Et	OCH ₃	H	F	OH	H	H
XX-13-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	Et	OCH ₃	H	F	OH	H	H
XX-13-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	Et	OCH ₃	H	F	OH	H	H
XX-13-8	ⁱ Pr	*	H	*	Et	OCH ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XX-14

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XX-14-1	^t Bu	H	H	H	Et	OCH ₃	H	F	OH	H	H
XX-14-2	^t Bu	H	H	CH ₃	Et	OCH ₃	H	F	OH	H	H
XX-14-3	^t Bu	H	H	CH(CH ₃) ₂	Et	OCH ₃	H	F	OH	H	H
XX-14-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	Et	OCH ₃	H	F	OH	H	H

428

TABLE XX-14-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XX-14-5	^t Bu	H	H	CH ₂ Ph	Et	OCH ₃	H	F	OH	H	H
XX-14-6	^t Bu	H	H	CH ₂ -indol-3-yl	Et	OCH ₃	H	F	OH	H	H
XX-14-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	Et	OCH ₃	H	F	OH	H	H
XX-14-8	^t Bu	*	H	*	Et	OCH ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XX-15

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XX-15-1	Ph	H	H	H	Et	OCH ₃	H	F	OH	H	H
XX-15-2	Ph	H	H	CH ₃	Et	OCH ₃	H	F	OH	H	H
XX-15-3	Ph	H	H	CH(CH ₃) ₂	Et	OCH ₃	H	F	OH	H	H
XX-15-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	OCH ₃	H	F	OH	H	H
XX-15-5	Ph	H	H	CH ₂ Ph	Et	OCH ₃	H	F	OH	H	H
XX-15-6	Ph	H	H	CH ₂ -indol-3-yl	Et	OCH ₃	H	F	OH	H	H
XX-15-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	OCH ₃	H	F	OH	H	H
XX-15-8	Ph	*	H	*	Et	OCH ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XX-16

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XX-16-1	p-Me—Ph	H	H	H	Et	OCH ₃	H	F	OH	H	H
XX-16-2	p-Me—Ph	H	H	CH ₃	Et	OCH ₃	H	F	OH	H	H
XX-16-3	p-Me—Ph	H	H	CH(CH ₃) ₂	Et	OCH ₃	H	F	OH	H	H
XX-16-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	OCH ₃	H	F	OH	H	H
XX-16-5	p-Me—Ph	H	H	CH ₂ Ph	Et	OCH ₃	H	F	OH	H	H
XX-16-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	Et	OCH ₃	H	F	OH	H	H
XX-16-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	OCH ₃	H	F	OH	H	H
XX-16-8	p-Me—Ph	*	H	*	Et	OCH ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XX-17

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XX-17-1	p-F—Ph	H	H	H	Et	OCH ₃	H	F	OH	H	H
XX-17-2	p-F—Ph	H	H	CH ₃	Et	OCH ₃	H	F	OH	H	H
XX-17-3	p-F—Ph	H	H	CH(CH ₃) ₂	Et	OCH ₃	H	F	OH	H	H
XX-17-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	OCH ₃	H	F	OH	H	H
XX-17-5	p-F—Ph	H	H	CH ₂ Ph	Et	OCH ₃	H	F	OH	H	H
XX-17-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	Et	OCH ₃	H	F	OH	H	H
XX-17-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	OCH ₃	H	F	OH	H	H
XX-17-8	p-F—Ph	*	H	*	Et	OCH ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XX-18

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XX-18-1	p-Cl—Ph	H	H	H	Et	OCH ₃	H	F	OH	H	H
XX-18-2	p-Cl—Ph	H	H	CH ₃	Et	OCH ₃	H	F	OH	H	H
XX-18-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	Et	OCH ₃	H	F	OH	H	H
XX-18-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	OCH ₃	H	F	OH	H	H
XX-18-5	p-Cl—Ph	H	H	CH ₂ Ph	Et	OCH ₃	H	F	OH	H	H

TABLE XX-18-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XX-18-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	Et	OCH ₃	H	F	OH	H	H
XX-18-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	OCH ₃	H	F	OH	H	H
XX-18-8	p-Cl—Ph	*	H	*	Et	OCH ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XX-19

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XX-19-1	p-Br—Ph	H	H	H	Et	OCH ₃	H	F	OH	H	H
XX-19-2	p-Br—Ph	H	H	CH ₃	Et	OCH ₃	H	F	OH	H	H
XX-19-3	p-Br—Ph	H	H	CH(CH ₃) ₂	Et	OCH ₃	H	F	OH	H	H
XX-19-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	OCH ₃	H	F	OH	H	H
XX-19-5	p-Br—Ph	H	H	CH ₂ Ph	Et	OCH ₃	H	F	OH	H	H
XX-19-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	Et	OCH ₃	H	F	OH	H	H
XX-19-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	OCH ₃	H	F	OH	H	H
XX-19-8	p-Br—Ph	*	H	*	Et	OCH ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XX-20

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XX-20-1	p-I—Ph	H	H	H	Et	OCH ₃	H	F	OH	H	H
XX-20-2	p-I—Ph	H	H	CH ₃	Et	OCH ₃	H	F	OH	H	H
XX-20-3	p-I—Ph	H	H	CH(CH ₃) ₂	Et	OCH ₃	H	F	OH	H	H
XX-20-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	OCH ₃	H	F	OH	H	H
XX-20-5	p-I—Ph	H	H	CH ₂ Ph	Et	OCH ₃	H	F	OH	H	H
XX-20-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	Et	OCH ₃	H	F	OH	H	H
XX-20-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	OCH ₃	H	F	OH	H	H
XX-20-8	p-I—Ph	*	H	*	Et	OCH ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XX-21

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XX-21-1	CH ₃	H	H	H	^t Pr	OCH ₃	H	F	OH	H	H
XX-21-2	CH ₃	H	H	CH ₃	^t Pr	OCH ₃	H	F	OH	H	H
XX-21-3	CH ₃	H	H	CH(CH ₃) ₂	^t Pr	OCH ₃	H	F	OH	H	H
XX-21-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	^t Pr	OCH ₃	H	F	OH	H	H
XX-21-5	CH ₃	H	H	CH ₂ Ph	^t Pr	OCH ₃	H	F	OH	H	H
XX-21-6	CH ₃	H	H	CH ₂ -indol-3-yl	^t Pr	OCH ₃	H	F	OH	H	H
XX-21-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	^t Pr	OCH ₃	H	F	OH	H	H
XX-21-8	CH ₃	*	H	*	^t Pr	OCH ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XX-22

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XX-22-1	Et	H	H	H	^t Pr	OCH ₃	H	F	OH	H	H
XX-22-2	Et	H	H	CH ₃	^t Pr	OCH ₃	H	F	OH	H	H
XX-22-3	Et	H	H	CH(CH ₃) ₂	^t Pr	OCH ₃	H	F	OH	H	H
XX-22-4	Et	H	H	CH ₂ CH(CH ₃) ₂	^t Pr	OCH ₃	H	F	OH	H	H
XX-22-5	Et	H	H	CH ₂ Ph	^t Pr	OCH ₃	H	F	OH	H	H
XX-22-6	Et	H	H	CH ₂ -indol-3-yl	^t Pr	OCH ₃	H	F	OH	H	H
XX-22-7	Et	H	H	CH ₂ CH ₂ SCH ₃	^t Pr	OCH ₃	H	F	OH	H	H
XX-22-8	Et	*	H	*	^t Pr	OCH ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XX-23

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XX-23-1	^t Pr	H	H	H	^t Pr	OCH ₃	H	F	OH	H	H
XX-23-2	^t Pr	H	H	CH ₃	^t Pr	OCH ₃	H	F	OH	H	H
XX-23-3	^t Pr	H	H	CH(CH ₃) ₂	^t Pr	OCH ₃	H	F	OH	H	H
XX-23-4	^t Pr	H	H	CH ₂ CH(CH ₃) ₂	^t Pr	OCH ₃	H	F	OH	H	H
XX-23-5	^t Pr	H	H	CH ₂ Ph	^t Pr	OCH ₃	H	F	OH	H	H
XX-23-6	^t Pr	H	H	CH ₂ -indol-3-yl	^t Pr	OCH ₃	H	F	OH	H	H
XX-23-7	^t Pr	H	H	CH ₂ CH ₂ SCH ₃	^t Pr	OCH ₃	H	F	OH	H	H
XX-23-8	^t Pr	*	H	*	^t Pr	OCH ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

431

TABLE XX-24

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XX-24-1	'Bu	H	H	H	^t Pr	OCH ₃	H	F	OH	H	H
XX-24-2	'Bu	H	H	CH ₃	^t Pr	OCH ₃	H	F	OH	H	H
XX-24-3	'Bu	H	H	CH(CH ₃) ₂	^t Pr	OCH ₃	H	F	OH	H	H
XX-24-4	'Bu	H	H	CH ₂ CH(CH ₃) ₂	^t Pr	OCH ₃	H	F	OH	H	H
XX-24-5	'Bu	H	H	CH ₂ Ph	^t Pr	OCH ₃	H	F	OH	H	H
XX-24-6	'Bu	H	H	CH ₂ -indol-3-yl	^t Pr	OCH ₃	H	F	OH	H	H
XX-24-7	'Bu	H	H	CH ₂ CH ₂ SCH ₃	^t Pr	OCH ₃	H	F	OH	H	H
XX-24-8	'Bu	*	H	*	^t Pr	OCH ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

432

TABLE XX-25

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XX-25-1	Ph	H	H	H	^t Pr	OCH ₃	H	F	OH	H	H
XX-25-2	Ph	H	H	CH ₃	^t Pr	OCH ₃	H	F	OH	H	H
XX-25-3	Ph	H	H	CH(CH ₃) ₂	^t Pr	OCH ₃	H	F	OH	H	H
XX-25-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	^t Pr	OCH ₃	H	F	OH	H	H
XX-25-5	Ph	H	H	CH ₂ Ph	^t Pr	OCH ₃	H	F	OH	H	H
XX-25-6	Ph	H	H	CH ₂ -indol-3-yl	^t Pr	OCH ₃	H	F	OH	H	H
XX-25-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	^t Pr	OCH ₃	H	F	OH	H	H
XX-25-8	Ph	*	H	*	^t Pr	OCH ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XX-26

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XX-26-1	p-Me—Ph	H	H	H	^t Pr	OCH ₃	H	F	OH	H	H
XX-26-2	p-Me—Ph	H	H	CH ₃	^t Pr	OCH ₃	H	F	OH	H	H
XX-26-3	p-Me—Ph	H	H	CH(CH ₃) ₂	^t Pr	OCH ₃	H	F	OH	H	H
XX-26-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	^t Pr	OCH ₃	H	F	OH	H	H
XX-26-5	p-Me—Ph	H	H	CH ₂ Ph	^t Pr	OCH ₃	H	F	OH	H	H
XX-26-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	^t Pr	OCH ₃	H	F	OH	H	H
XX-26-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	^t Pr	OCH ₃	H	F	OH	H	H
XX-26-8	p-Me—Ph	*	H	*	^t Pr	OCH ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XX-27

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XX-27-1	p-F—Ph	H	H	H	^t Pr	OCH ₃	H	F	OH	H	H
XX-27-2	p-F—Ph	H	H	CH ₃	^t Pr	OCH ₃	H	F	OH	H	H
XX-27-3	p-F—Ph	H	H	CH(CH ₃) ₂	^t Pr	OCH ₃	H	F	OH	H	H
XX-27-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	^t Pr	OCH ₃	H	F	OH	H	H
XX-27-5	p-F—Ph	H	H	CH ₂ Ph	^t Pr	OCH ₃	H	F	OH	H	H
XX-27-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	^t Pr	OCH ₃	H	F	OH	H	H
XX-27-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	^t Pr	OCH ₃	H	F	OH	H	H
XX-27-8	p-F—Ph	*	H	*	^t Pr	OCH ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XX-28

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XX-28-1	p-Cl—Ph	H	H	H	^t Pr	OCH ₃	H	F	OH	H	H
XX-28-2	p-Cl—Ph	H	H	CH ₃	^t Pr	OCH ₃	H	F	OH	H	H
XX-28-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	^t Pr	OCH ₃	H	F	OH	H	H
XX-28-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	^t Pr	OCH ₃	H	F	OH	H	H
XX-28-5	p-Cl—Ph	H	H	CH ₂ Ph	^t Pr	OCH ₃	H	F	OH	H	H
XX-28-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	^t Pr	OCH ₃	H	F	OH	H	H
XX-28-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	^t Pr	OCH ₃	H	F	OH	H	H
XX-28-8	p-Cl—Ph	*	H	*	^t Pr	OCH ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XX-29

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XX-29-1	p-Br—Ph	H	H	H	^t Pr	OCH ₃	H	F	OH	H	H
XX-29-2	p-Br—Ph	H	H	CH ₃	^t Pr	OCH ₃	H	F	OH	H	H
XX-29-3	p-Br—Ph	H	H	CH(CH ₃) ₂	^t Pr	OCH ₃	H	F	OH	H	H
XX-29-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	^t Pr	OCH ₃	H	F	OH	H	H
XX-29-5	p-Br—Ph	H	H	CH ₂ Ph	^t Pr	OCH ₃	H	F	OH	H	H

TABLE XX-29-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XX-29-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	OCH ₃	H	F	OH	H	H
XX-29-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	OCH ₃	H	F	OH	H	H
XX-29-8	p-Br—Ph	*	H	*	ⁱ Pr	OCH ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XX-30

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XX-30-1	p-I—Ph	H	H	H	ⁱ Pr	OCH ₃	H	F	OH	H	H
XX-30-2	p-I—Ph	H	H	CH ₃	ⁱ Pr	OCH ₃	H	F	OH	H	H
XX-30-3	p-I—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	OCH ₃	H	F	OH	H	H
XX-30-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	OCH ₃	H	F	OH	H	H
XX-30-5	p-I—Ph	H	H	CH ₂ Ph	ⁱ Pr	OCH ₃	H	F	OH	H	H
XX-30-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	OCH ₃	H	F	OH	H	H
XX-30-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	OCH ₃	H	F	OH	H	H
XX-30-8	p-I—Ph	*	H	*	ⁱ Pr	OCH ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XX-31

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XX-31-1	CH ₃	H	H	H	ⁿ Bu	OCH ₃	H	F	OH	H	H
XX-31-2	CH ₃	H	H	CH ₃	ⁿ Bu	OCH ₃	H	F	OH	H	H
XX-31-3	CH ₃	H	H	CH(CH ₃) ₂	ⁿ Bu	OCH ₃	H	F	OH	H	H
XX-31-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	OCH ₃	H	F	OH	H	H
XX-31-5	CH ₃	H	H	CH ₂ Ph	ⁿ Bu	OCH ₃	H	F	OH	H	H
XX-31-6	CH ₃	H	H	CH ₂ -indol-3-yl	ⁿ Bu	OCH ₃	H	F	OH	H	H
XX-31-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	OCH ₃	H	F	OH	H	H
XX-31-8	CH ₃	*	H	*	ⁿ Bu	OCH ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

35

TABLE XX-32

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XX-32-1	Et	H	H	H	ⁿ Bu	OCH ₃	H	F	OH	H	H
XX-32-2	Et	H	H	CH ₃	ⁿ Bu	OCH ₃	H	F	OH	H	H
XX-32-3	Et	H	H	CH(CH ₃) ₂	ⁿ Bu	OCH ₃	H	F	OH	H	H
XX-32-4	Et	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	OCH ₃	H	F	OH	H	H
XX-32-5	Et	H	H	CH ₂ Ph	ⁿ Bu	OCH ₃	H	F	OH	H	H
XX-32-6	Et	H	H	CH ₂ -indol-3-yl	ⁿ Bu	OCH ₃	H	F	OH	H	H
XX-32-7	Et	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	OCH ₃	H	F	OH	H	H
XX-32-8	Et	*	H	*	ⁿ Bu	OCH ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XX-33

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XX-33-1	ⁱ Pr	H	H	H	ⁿ Bu	OCH ₃	H	F	OH	H	H
XX-33-2	ⁱ Pr	H	H	CH ₃	ⁿ Bu	OCH ₃	H	F	OH	H	H
XX-33-3	ⁱ Pr	H	H	CH(CH ₃) ₂	ⁿ Bu	OCH ₃	H	F	OH	H	H
XX-33-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	OCH ₃	H	F	OH	H	H
XX-33-5	ⁱ Pr	H	H	CH ₂ Ph	ⁿ Bu	OCH ₃	H	F	OH	H	H

TABLE XX-33-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
40 XX-33-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	ⁿ Bu	OCH ₃	H	F	OH	H	H
XX-33-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	OCH ₃	H	F	OH	H	H
45 XX-33-8	ⁱ Pr	*	H	*	ⁿ Bu	OCH ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XX-34

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XX-34-1	^t Bu	H	H	H	ⁿ Bu	OCH ₃	H	F	OH	H	H
XX-34-2	^t Bu	H	H	CH ₃	ⁿ Bu	OCH ₃	H	F	OH	H	H
55 XX-34-3	^t Bu	H	H	CH(CH ₃) ₂	ⁿ Bu	OCH ₃	H	F	OH	H	H
XX-34-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	OCH ₃	H	F	OH	H	H
XX-34-5	^t Bu	H	H	CH ₂ Ph	ⁿ Bu	OCH ₃	H	F	OH	H	H
60 XX-34-6	^t Bu	H	H	CH ₂ -indol-3-yl	ⁿ Bu	OCH ₃	H	F	OH	H	H
XX-34-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	OCH ₃	H	F	OH	H	H
65 XX-34-8	^t Bu	*	H	*	ⁿ Bu	OCH ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

435

TABLE XX-35

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XX-35-1	Ph	H	H	H	"Bu	OCH ₃	H	F	OH	H	H
XX-35-2	Ph	H	H	CH ₃	"Bu	OCH ₃	H	F	OH	H	H
XX-35-3	Ph	H	H	CH(CH ₃) ₂	"Bu	OCH ₃	H	F	OH	H	H
XX-35-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	OCH ₃	H	F	OH	H	H

436

TABLE XX-35-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XX-35-5	Ph	H	H	CH ₂ Ph	"Bu	OCH ₃	H	F	OH	H	H
XX-35-6	Ph	H	H	CH ₂ -indol-3-yl	"Bu	OCH ₃	H	F	OH	H	H
XX-35-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	OCH ₃	H	F	OH	H	H
XX-35-8	Ph	*	H	*	"Bu	OCH ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XX-36

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XX-36-1	p-Me-Ph	H	H	H	"Bu	OCH ₃	H	F	OH	H	H
XX-36-2	p-Me-Ph	H	H	CH ₃	"Bu	OCH ₃	H	F	OH	H	H
XX-36-3	p-Me-Ph	H	H	CH(CH ₃) ₂	"Bu	OCH ₃	H	F	OH	H	H
XX-36-4	p-Me-Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	OCH ₃	H	F	OH	H	H
XX-36-5	p-Me-Ph	H	H	CH ₂ Ph	"Bu	OCH ₃	H	F	OH	H	H
XX-36-6	p-Me-Ph	H	H	CH ₂ -indol-3-yl	"Bu	OCH ₃	H	F	OH	H	H
XX-36-7	p-Me-Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	OCH ₃	H	F	OH	H	H
XX-36-8	p-Me-Ph	*	H	*	"Bu	OCH ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XX-37

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XX-37-1	p-F-Ph	H	H	H	"Bu	OCH ₃	H	F	OH	H	H
XX-37-2	p-F-Ph	H	H	CH ₃	"Bu	OCH ₃	H	F	OH	H	H
XX-37-3	p-F-Ph	H	H	CH(CH ₃) ₂	"Bu	OCH ₃	H	F	OH	H	H
XX-37-4	p-F-Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	OCH ₃	H	F	OH	H	H
XX-37-5	p-F-Ph	H	H	CH ₂ Ph	"Bu	OCH ₃	H	F	OH	H	H
XX-37-6	p-F-Ph	H	H	CH ₂ -indol-3-yl	"Bu	OCH ₃	H	F	OH	H	H
XX-37-7	p-F-Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	OCH ₃	H	F	OH	H	H
XX-37-8	p-F-Ph	*	H	*	"Bu	OCH ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XX-38

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XX-38-1	p-Cl-Ph	H	H	H	"Bu	OCH ₃	H	F	OH	H	H
XX-38-2	p-Cl-Ph	H	H	CH ₃	"Bu	OCH ₃	H	F	OH	H	H
XX-38-3	p-Cl-Ph	H	H	CH(CH ₃) ₂	"Bu	OCH ₃	H	F	OH	H	H
XX-38-4	p-Cl-Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	OCH ₃	H	F	OH	H	H
XX-38-5	p-Cl-Ph	H	H	CH ₂ Ph	"Bu	OCH ₃	H	F	OH	H	H
XX-38-6	p-Cl-Ph	H	H	CH ₂ -indol-3-yl	"Bu	OCH ₃	H	F	OH	H	H
XX-38-7	p-Cl-Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	OCH ₃	H	F	OH	H	H
XX-38-8	p-Cl-Ph	*	H	*	"Bu	OCH ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XX-39

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XX-39-1	p-Br-Ph	H	H	H	"Bu	OCH ₃	H	F	OH	H	H
XX-39-2	p-Br-Ph	H	H	CH ₃	"Bu	OCH ₃	H	F	OH	H	H
XX-39-3	p-Br-Ph	H	H	CH(CH ₃) ₂	"Bu	OCH ₃	H	F	OH	H	H
XX-39-4	p-Br-Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	OCH ₃	H	F	OH	H	H
XX-39-5	p-Br-Ph	H	H	CH ₂ Ph	"Bu	OCH ₃	H	F	OH	H	H
XX-39-6	p-Br-Ph	H	H	CH ₂ -indol-3-yl	"Bu	OCH ₃	H	F	OH	H	H
XX-39-7	p-Br-Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	OCH ₃	H	F	OH	H	H
XX-39-8	p-Br-Ph	*	H	*	"Bu	OCH ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XX-40

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XX-40-1	p-I—Ph	H	H	H	"Bu	OCH ₃	H	F	OH	H	H
XX-40-2	p-I—Ph	H	H	CH ₃	"Bu	OCH ₃	H	F	OH	H	H
XX-40-3	p-I—Ph	H	H	CH(CH ₃) ₂	"Bu	OCH ₃	H	F	OH	H	H
XX-40-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	OCH ₃	H	F	OH	H	H
XX-40-5	p-I—Ph	H	H	CH ₂ Ph	"Bu	OCH ₃	H	F	OH	H	H
XX-40-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	"Bu	OCH ₃	H	F	OH	H	H
XX-40-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	OCH ₃	H	F	OH	H	H
XX-40-8	p-I—Ph	*	H	*	"Bu	OCH ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XX-41

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XX-41-1	CH ₃	H	H	H	Bz	OCH ₃	H	F	OH	H	H
XX-41-2	CH ₃	H	H	CH ₃	Bz	OCH ₃	H	F	OH	H	H
XX-41-3	CH ₃	H	H	CH(CH ₃) ₂	Bz	OCH ₃	H	F	OH	H	H
XX-41-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	Bz	OCH ₃	H	F	OH	H	H
XX-41-5	CH ₃	H	H	CH ₂ Ph	Bz	OCH ₃	H	F	OH	H	H
XX-41-6	CH ₃	H	H	CH ₂ -indol-3-yl	Bz	OCH ₃	H	F	OH	H	H
XX-41-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	Bz	OCH ₃	H	F	OH	H	H
XX-41-8	CH ₃	*	H	*	Bz	OCH ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XX-42

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XX-42-1	Et	H	H	H	Bz	OCH ₃	H	F	OH	H	H
XX-42-2	Et	H	H	CH ₃	Bz	OCH ₃	H	F	OH	H	H
XX-42-3	Et	H	H	CH(CH ₃) ₂	Bz	OCH ₃	H	F	OH	H	H
XX-42-4	Et	H	H	CH ₂ CH(CH ₃) ₂	Bz	OCH ₃	H	F	OH	H	H
XX-42-5	Et	H	H	CH ₂ Ph	Bz	OCH ₃	H	F	OH	H	H
XX-42-6	Et	H	H	CH ₂ -indol-3-yl	Bz	OCH ₃	H	F	OH	H	H
XX-42-7	Et	H	H	CH ₂ CH ₂ SCH ₃	Bz	OCH ₃	H	F	OH	H	H
XX-42-8	Et	*	H	*	Bz	OCH ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XX-43

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XX-43-1	ⁱ Pr	H	H	H	Bz	OCH ₃	H	F	OH	H	H
XX-43-2	ⁱ Pr	H	H	CH ₃	Bz	OCH ₃	H	F	OH	H	H
XX-43-3	ⁱ Pr	H	H	CH(CH ₃) ₂	Bz	OCH ₃	H	F	OH	H	H
XX-43-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	Bz	OCH ₃	H	F	OH	H	H
XX-43-5	ⁱ Pr	H	H	CH ₂ Ph	Bz	OCH ₃	H	F	OH	H	H
XX-43-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	Bz	OCH ₃	H	F	OH	H	H
XX-43-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	Bz	OCH ₃	H	F	OH	H	H
XX-43-8	ⁱ Pr	*	H	*	Bz	OCH ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XX-44

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XX-44-1	^t Bu	H	H	H	Bz	OCH ₃	H	F	OH	H	H
XX-44-2	^t Bu	H	H	CH ₃	Bz	OCH ₃	H	F	OH	H	H
XX-44-3	^t Bu	H	H	CH(CH ₃) ₂	Bz	OCH ₃	H	F	OH	H	H
XX-44-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	Bz	OCH ₃	H	F	OH	H	H
XX-44-5	^t Bu	H	H	CH ₂ Ph	Bz	OCH ₃	H	F	OH	H	H
XX-44-6	^t Bu	H	H	CH ₂ -indol-3-yl	Bz	OCH ₃	H	F	OH	H	H
XX-44-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	Bz	OCH ₃	H	F	OH	H	H
XX-44-8	^t Bu	*	H	*	Bz	OCH ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XX-45

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XX-45-1	Ph	H	H	H	Bz	OCH ₃	H	F	OH	H	H
XX-45-2	Ph	H	H	CH ₃	Bz	OCH ₃	H	F	OH	H	H
XX-45-3	Ph	H	H	CH(CH ₃) ₂	Bz	OCH ₃	H	F	OH	H	H
XX-45-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	OCH ₃	H	F	OH	H	H
XX-45-5	Ph	H	H	CH ₂ Ph	Bz	OCH ₃	H	F	OH	H	H
XX-45-6	Ph	H	H	CH ₂ -indol-3-yl	Bz	OCH ₃	H	F	OH	H	H
XX-45-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	OCH ₃	H	F	OH	H	H
XX-45-8	Ph	*	H	*	Bz	OCH ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XX-46

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XX-46-1	p-Me—Ph	H	H	H	Bz	OCH ₃	H	F	OH	H	H
XX-46-2	p-Me—Ph	H	H	CH ₃	Bz	OCH ₃	H	F	OH	H	H
XX-46-3	p-Me—Ph	H	H	CH(CH ₃) ₂	Bz	OCH ₃	H	F	OH	H	H
XX-46-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	OCH ₃	H	F	OH	H	H
XX-46-5	p-Me—Ph	H	H	CH ₂ Ph	Bz	OCH ₃	H	F	OH	H	H
XX-46-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	Bz	OCH ₃	H	F	OH	H	H
XX-46-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	OCH ₃	H	F	OH	H	H
XX-46-8	p-Me—Ph	*	H	*	Bz	OCH ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XX-47

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XX-47-1	p-F—Ph	H	H	H	Bz	OCH ₃	H	F	OH	H	H
XX-47-2	p-F—Ph	H	H	CH ₃	Bz	OCH ₃	H	F	OH	H	H
XX-47-3	p-F—Ph	H	H	CH(CH ₃) ₂	Bz	OCH ₃	H	F	OH	H	H
XX-47-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	OCH ₃	H	F	OH	H	H
XX-47-5	p-F—Ph	H	H	CH ₂ Ph	Bz	OCH ₃	H	F	OH	H	H
XX-47-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	Bz	OCH ₃	H	F	OH	H	H
XX-47-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	OCH ₃	H	F	OH	H	H
XX-47-8	p-F—Ph	*	H	*	Bz	OCH ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XX-48

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XX-48-1	p-Cl—Ph	H	H	H	Bz	OCH ₃	H	F	OH	H	H
XX-48-2	p-Cl—Ph	H	H	CH ₃	Bz	OCH ₃	H	F	OH	H	H
XX-48-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	Bz	OCH ₃	H	F	OH	H	H
XX-48-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	OCH ₃	H	F	OH	H	H
XX-48-5	p-Cl—Ph	H	H	CH ₂ Ph	Bz	OCH ₃	H	F	OH	H	H
XX-48-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	Bz	OCH ₃	H	F	OH	H	H
XX-48-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	OCH ₃	H	F	OH	H	H
XX-48-8	p-Cl—Ph	*	H	*	Bz	OCH ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XX-49

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XX-49-1	p-Br—Ph	H	H	H	Bz	OCH ₃	H	F	OH	H	H
XX-49-2	p-Br—Ph	H	H	CH ₃	Bz	OCH ₃	H	F	OH	H	H
XX-49-3	p-Br—Ph	H	H	CH(CH ₃) ₂	Bz	OCH ₃	H	F	OH	H	H
XX-49-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	OCH ₃	H	F	OH	H	H
XX-49-5	p-Br—Ph	H	H	CH ₂ Ph	Bz	OCH ₃	H	F	OH	H	H
XX-49-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	Bz	OCH ₃	H	F	OH	H	H
XX-49-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	OCH ₃	H	F	OH	H	H
XX-49-8	p-Br—Ph	*	H	*	Bz	OCH ₃	H	F	OH	H	H

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XX-50

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	R ⁷	R ⁸
XX-50-1	p-I—Ph	H	H	H	Bz	OCH ₃	H	F	OH	H	H
XX-50-2	p-I—Ph	H	H	CH ₃	Bz	OCH ₃	H	F	OH	H	H
XX-50-3	p-I—Ph	H	H	CH(CH ₃) ₂	Bz	OCH ₃	H	F	OH	H	H
XX-50-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	OCH ₃	H	F	OH	H	H
XX-50-5	p-I—Ph	H	H	CH ₂ Ph	Bz	OCH ₃	H	F	OH	H	H
XX-50-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	Bz	OCH ₃	H	F	OH	H	H
XX-50-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	OCH ₃	H	F	OH	H	H
XX-50-8	p-I—Ph	*	H	*	Bz	OCH ₃	H	F	OH	H	H

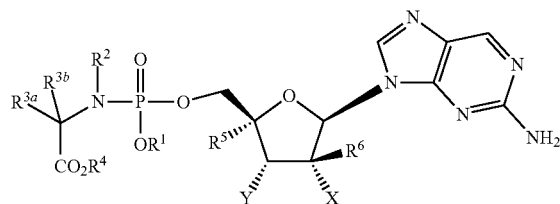
*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXI-1

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXI-1-1	CH ₃	H	H	H	CH ₃	H	CH ₃	F	OH
XXI-1-2	CH ₃	H	H	CH ₃	CH ₃	H	CH ₃	F	OH
XXI-1-3	CH ₃	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH
XXI-1-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH
XXI-1-5	CH ₃	H	H	CH ₂ Ph	CH ₃	H	CH ₃	F	OH
XXI-1-6	CH ₃	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	F	OH
XXI-1-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	F	OH
XXI-1-8	CH ₃	*	H	*	CH ₃	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXI-2

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXI-2-1	Et	H	H	H	CH ₃	H	CH ₃	F	OH
XXI-2-2	Et	H	H	CH ₃	CH ₃	H	CH ₃	F	OH
XXI-2-3	Et	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH
XXI-2-4	Et	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH
XXI-2-5	Et	H	H	CH ₂ Ph	CH ₃	H	CH ₃	F	OH
XXI-2-6	Et	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	F	OH
XXI-2-7	Et	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	F	OH
XXI-2-8	Et	*	H	*	CH ₃	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXI-3

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXI-3-1	ⁱ Pr	H	H	H	CH ₃	H	CH ₃	F	OH
XXI-3-2	ⁱ Pr	H	H	CH ₃	CH ₃	H	CH ₃	F	OH
XXI-3-3	ⁱ Pr	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH
XXI-3-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH
XXI-3-5	ⁱ Pr	H	H	CH ₂ Ph	CH ₃	H	CH ₃	F	OH

TABLE XXI-3-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXI-3-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	F	OH
XXI-3-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	F	OH
XXI-3-8	ⁱ Pr	*	H	*	CH ₃	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXI-4

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXI-4-1	^t Bu	H	H	H	CH ₃	H	CH ₃	F	OH
XXI-4-2	^t Bu	H	H	CH ₃	CH ₃	H	CH ₃	F	OH
XXI-4-3	^t Bu	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH
XXI-4-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH
XXI-4-5	^t Bu	H	H	CH ₂ Ph	CH ₃	H	CH ₃	F	OH
XXI-4-6	^t Bu	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	F	OH
XXI-4-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	F	OH
XXI-4-8	^t Bu	*	H	*	CH ₃	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXI-5

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXI-5-1	Ph	H	H	H	CH ₃	H	CH ₃	F	OH
XXI-5-2	Ph	H	H	CH ₃	CH ₃	H	CH ₃	F	OH
XXI-5-3	Ph	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH
XXI-5-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH
XXI-5-5	Ph	H	H	CH ₂ Ph	CH ₃	H	CH ₃	F	OH
XXI-5-6	Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	F	OH
XXI-5-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	F	OH
XXI-5-8	Ph	*	H	*	CH ₃	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXI-6

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXI-6-1	p-Me—Ph	H	H	H	CH ₃	H	CH ₃	F	OH
XXI-6-2	p-Me—Ph	H	H	CH ₃	CH ₃	H	CH ₃	F	OH
XXI-6-3	p-Me—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH
XXI-6-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH
XXI-6-5	p-Me—Ph	H	H	CH ₂ Ph	CH ₃	H	CH ₃	F	OH
XXI-6-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	F	OH
XXI-6-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	F	OH
XXI-6-8	p-Me—Ph	*	H	*	CH ₃	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

443

TABLE XXI-7

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXI-7-1	p-F—Ph	H	H	H	CH ₃	H	CH ₃	F	OH
XXI-7-2	p-F—Ph	H	H	CH ₃	CH ₃	H	CH ₃	F	OH
XXI-7-3	p-F—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH
XXI-7-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH
XXI-7-6	p-F—Ph	H	H	CH ₂ Ph	CH ₃	H	CH ₃	F	OH
XXI-7-7	p-F—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	F	OH
XXI-7-8	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	F	OH
XXI-7-20	p-F—Ph	*	H	*	CH ₃	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXI-8

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXI-8-1	p-Cl—Ph	H	H	H	CH ₃	H	CH ₃	F	OH
XXI-8-2	p-Cl—Ph	H	H	CH ₃	CH ₃	H	CH ₃	F	OH
XXI-8-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH
XXI-8-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH
XXI-8-5	p-Cl—Ph	H	H	CH ₂ Ph	CH ₃	H	CH ₃	F	OH
XXI-8-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	F	OH
XXI-8-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	F	OH
XXI-8-8	p-Cl—Ph	*	H	*	CH ₃	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXI-9

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXI-9-1	p-Br—Ph	H	H	H	CH ₃	H	CH ₃	F	OH
XXI-9-2	p-Br—Ph	H	H	CH ₃	CH ₃	H	CH ₃	F	OH
XXI-9-3	p-Br—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH
XXI-9-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH
XXI-9-6	p-Br—Ph	H	H	CH ₂ Ph	CH ₃	H	CH ₃	F	OH
XXI-9-7	p-Br—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	F	OH
XXI-9-8	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	F	OH
XXI-9-20	p-Br—Ph	*	H	*	CH ₃	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXI-10

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXI-10-1	p-I—Ph	H	H	H	CH ₃	H	CH ₃	F	OH
XXI-10-2	p-I—Ph	H	H	CH ₃	CH ₃	H	CH ₃	F	OH

444

TABLE XXI-10-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXI-10-3	p-I—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH
XXI-10-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH
XXI-10-5	p-I—Ph	H	H	CH ₂ Ph	CH ₃	H	CH ₃	F	OH
XXI-10-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	F	OH
XXI-10-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	F	OH
XXI-10-8	p-I—Ph	*	H	*	CH ₃	H	CH ₃	F	OH

15 *R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXI-11

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXI-11-1	CH ₃	H	H	H	Et	H	CH ₃	F	OH
XXI-11-2	CH ₃	H	H	CH ₃	Et	H	CH ₃	F	OH
XXI-11-3	CH ₃	H	H	CH(CH ₃) ₂	Et	H	CH ₃	F	OH
XXI-11-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	F	OH
XXI-11-5	CH ₃	H	H	CH ₂ Ph	Et	H	CH ₃	F	OH
XXI-11-6	CH ₃	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	F	OH
XXI-11-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	F	OH
XXI-11-8	CH ₃	*	H	*	Et	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXI-12

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXI-12-1	Et	H	H	H	Et	H	CH ₃	F	OH
XXI-12-2	Et	H	H	CH ₃	Et	H	CH ₃	F	OH
XXI-12-3	Et	H	H	CH(CH ₃) ₂	Et	H	CH ₃	F	OH
XXI-12-4	Et	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	F	OH
XXI-12-5	Et	H	H	CH ₂ Ph	Et	H	CH ₃	F	OH
XXI-12-6	Et	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	F	OH
XXI-12-7	Et	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	F	OH
XXI-12-8	Et	*	H	*	Et	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXI-13

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXI-13-1	ⁱ Pr	H	H	H	Et	H	CH ₃	F	OH
XXI-13-2	ⁱ Pr	H	H	CH ₃	Et	H	CH ₃	F	OH
XXI-13-3	ⁱ Pr	H	H	CH(CH ₃) ₂	Et	H	CH ₃	F	OH
XXI-13-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	F	OH
XXI-13-5	ⁱ Pr	H	H	CH ₂ Ph	Et	H	CH ₃	F	OH
XXI-13-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	F	OH
XXI-13-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	F	OH
XXI-13-8	ⁱ Pr	*	H	*	Et	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXI-14

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXI-14-1	^t Bu	H	H	H	Et	H	CH ₃	F	OH
XXI-14-2	^t Bu	H	H	CH ₃	Et	H	CH ₃	F	OH
XXI-14-3	^t Bu	H	H	CH(CH ₃) ₂	Et	H	CH ₃	F	OH
XXI-14-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	F	OH
XXI-14-5	^t Bu	H	H	CH ₂ Ph	Et	H	CH ₃	F	OH
XXI-14-6	^t Bu	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	F	OH
XXI-14-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	F	OH
XXI-14-8	^t Bu	*	H	*	Et	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

445

TABLE XXI-15

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXI-15-1	Ph	H	H	H	Et	H	CH ₃	F	OH
XXI-15-2	Ph	H	H	CH ₃	Et	H	CH ₃	F	OH
XXI-15-3	Ph	H	H	CH(CH ₃) ₂	Et	H	CH ₃	F	OH
XXI-15-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	F	OH
XXI-15-5	Ph	H	H	CH ₂ Ph	Et	H	CH ₃	F	OH
XXI-15-6	Ph	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	F	OH
XXI-15-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	F	OH
XXI-15-8	Ph	*	H	*	Et	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXI-16

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXI-16-1	p-Me—Ph	H	H	H	Et	H	CH ₃	F	OH
XXI-16-2	p-Me—Ph	H	H	CH ₃	Et	H	CH ₃	F	OH
XXI-16-3	p-Me—Ph	H	H	CH(CH ₃) ₂	Et	H	CH ₃	F	OH
XXI-16-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	F	OH
XXI-16-5	p-Me—Ph	H	H	CH ₂ Ph	Et	H	CH ₃	F	OH
XXI-16-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	F	OH
XXI-16-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	F	OH
XXI-16-8	p-Me—Ph	*	H	*	Et	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXI-17

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXI-17-1	p-F—Ph	H	H	H	Et	H	CH ₃	F	OH
XXI-17-2	p-F—Ph	H	H	CH ₃	Et	H	CH ₃	F	OH
XXI-17-3	p-F—Ph	H	H	CH(CH ₃) ₂	Et	H	CH ₃	F	OH
XXI-17-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	F	OH
XXI-17-5	p-F—Ph	H	H	CH ₂ Ph	Et	H	CH ₃	F	OH
XXI-17-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	F	OH
XXI-17-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	F	OH
XXI-17-8	p-F—Ph	*	H	*	Et	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXI-18

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXI-18-1	p-Cl—Ph	H	H	H	Et	H	CH ₃	F	OH
XXI-18-2	p-Cl—Ph	H	H	CH ₃	Et	H	CH ₃	F	OH
XXI-18-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	Et	H	CH ₃	F	OH
XXI-18-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	F	OH
XXI-18-5	p-Cl—Ph	H	H	CH ₂ Ph	Et	H	CH ₃	F	OH
XXI-18-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	F	OH
XXI-18-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	F	OH
XXI-18-8	p-Cl—Ph	*	H	*	Et	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

446

TABLE XXI-19

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXI-19-1	p-Br—Ph	H	H	H	Et	H	CH ₃	F	OH
XXI-19-2	p-Br—Ph	H	H	CH ₃	Et	H	CH ₃	F	OH
XXI-19-3	p-Br—Ph	H	H	CH(CH ₃) ₂	Et	H	CH ₃	F	OH
XXI-19-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	F	OH
XXI-19-5	p-Br—Ph	H	H	CH ₂ Ph	Et	H	CH ₃	F	OH
XXI-19-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	F	OH
XXI-19-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	F	OH
XXI-19-8	p-Br—Ph	*	H	*	Et	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXI-20

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXI-20-1	p-I—Ph	H	H	H	Et	H	CH ₃	F	OH
XXI-20-2	p-I—Ph	H	H	CH ₃	Et	H	CH ₃	F	OH
XXI-20-3	p-I—Ph	H	H	CH(CH ₃) ₂	Et	H	CH ₃	F	OH
XXI-20-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	F	OH
XXI-20-5	p-I—Ph	H	H	CH ₂ Ph	Et	H	CH ₃	F	OH
XXI-20-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	F	OH
XXI-20-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	F	OH
XXI-20-8	p-I—Ph	*	H	*	Et	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXI-21

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXI-21-1	CH ₃	H	H	H	ⁱ Pr	H	CH ₃	F	OH
XXI-21-2	CH ₃	H	H	CH ₃	ⁱ Pr	H	CH ₃	F	OH
XXI-21-3	CH ₃	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH
XXI-21-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH
XXI-21-5	CH ₃	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	F	OH
XXI-21-6	CH ₃	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	F	OH
XXI-21-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	F	OH
XXI-21-8	CH ₃	*	H	*	ⁱ Pr	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXI-22

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXI-22-1	Et	H	H	H	ⁱ Pr	H	CH ₃	F	OH
XXI-22-2	Et	H	H	CH ₃	ⁱ Pr	H	CH ₃	F	OH
XXI-22-3	Et	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH
XXI-22-4	Et	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH
XXI-22-5	Et	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	F	OH
XXI-22-6	Et	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	F	OH
XXI-22-7	Et	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	F	OH
XXI-22-8	Et	*	H	*	ⁱ Pr	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXI-23

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXI-23-1	ⁱ Pr	H	H	H	ⁱ Pr	H	CH ₃	F	OH
XXI-23-2	ⁱ Pr	H	H	CH ₃	ⁱ Pr	H	CH ₃	F	OH
XXI-23-3	ⁱ Pr	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH
XXI-23-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH
XXI-23-5	ⁱ Pr	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	F	OH

447

TABLE XXI-23-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXI-23-6	^t Pr	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	F	OH
XXI-23-7	^t Pr	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	F	OH
XXI-23-8	^t Pr	*	H	*	ⁱ Pr	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXI-24

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXI-24-1	^t Bu	H	H	H	ⁱ Pr	H	CH ₃	F	OH
XXI-24-2	^t Bu	H	H	CH ₃	ⁱ Pr	H	CH ₃	F	OH
XXI-24-3	^t Bu	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH
XXI-24-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH
XXI-24-5	^t Bu	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	F	OH
XXI-24-6	^t Bu	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	F	OH
XXI-24-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	F	OH
XXI-24-8	^t Bu	*	H	*	ⁱ Pr	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXI-25

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXI-25-1	Ph	H	H	H	ⁱ Pr	H	CH ₃	F	OH
XXI-25-2	Ph	H	H	CH ₃	ⁱ Pr	H	CH ₃	F	OH
XXI-25-3	Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH
XXI-25-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH
XXI-25-5	Ph	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	F	OH
XXI-25-6	Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	F	OH
XXI-25-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	F	OH
XXI-25-8	Ph	*	H	*	ⁱ Pr	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXI-26

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXI-26-1	p-Me-Ph	H	H	H	ⁱ Pr	H	CH ₃	F	OH
XXI-26-2	p-Me-Ph	H	H	CH ₃	ⁱ Pr	H	CH ₃	F	OH
XXI-26-3	p-Me-Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH
XXI-26-4	p-Me-Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH
XXI-26-5	p-Me-Ph	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	F	OH
XXI-26-6	p-Me-Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	F	OH
XXI-26-7	p-Me-Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	F	OH
XXI-26-8	p-Me-Ph	*	H	*	ⁱ Pr	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXI-27

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXI-27-1	p-F-Ph	H	H	H	ⁱ Pr	H	CH ₃	F	OH
XXI-27-2	p-F-Ph	H	H	CH ₃	ⁱ Pr	H	CH ₃	F	OH
XXI-27-3	p-F-Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH
XXI-27-4	p-F-Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH
XXI-27-5	p-F-Ph	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	F	OH
XXI-27-6	p-F-Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	F	OH
XXI-27-7	p-F-Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	F	OH
XXI-27-8	p-F-Ph	*	H	*	ⁱ Pr	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

448

TABLE XXI-28

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	
5	XXI-28-1	p-Cl-Ph	H	H	H	ⁱ Pr	H	CH ₃	F	OH
	XXI-28-2	p-Cl-Ph	H	H	CH ₃	ⁱ Pr	H	CH ₃	F	OH
	XXI-28-3	p-Cl-Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH
10	XXI-28-4	p-Cl-Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH
	XXI-28-5	p-Cl-Ph	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	F	OH
	XXI-28-6	p-Cl-Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	F	OH
15	XXI-28-7	p-Cl-Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	F	OH
	XXI-28-8	p-Cl-Ph	*	H	*	ⁱ Pr	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXI-29

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	
25	XXI-29-1	p-Br-Ph	H	H	H	ⁱ Pr	H	CH ₃	F	OH
	XXI-29-2	p-Br-Ph	H	H	CH ₃	ⁱ Pr	H	CH ₃	F	OH
30	XXI-29-3	p-Br-Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH
	XXI-29-4	p-Br-Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH
	XXI-29-5	p-Br-Ph	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	F	OH
35	XXI-29-6	p-Br-Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	F	OH
	XXI-29-7	p-Br-Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	F	OH
	XXI-29-8	p-Br-Ph	*	H	*	ⁱ Pr	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXI-30

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	
45	XXI-30-1	p-I-Ph	H	H	H	ⁱ Pr	H	CH ₃	F	OH
	XXI-30-2	p-I-Ph	H	H	CH ₃	ⁱ Pr	H	CH ₃	F	OH
	XXI-30-3	p-I-Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH
	XXI-30-4	p-I-Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH
	XXI-30-5	p-I-Ph	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	F	OH
50	XXI-30-6	p-I-Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	F	OH
	XXI-30-7	p-I-Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	F	OH
	XXI-30-8	p-I-Ph	*	H	*	ⁱ Pr	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXI-31

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	
60	XXI-31-1	CH ₃	H	H	H	ⁿ Bu	H	CH ₃	F	OH
	XXI-31-2	CH ₃	H	H	CH ₃	ⁿ Bu	H	CH ₃	F	OH
	XXI-31-3	CH ₃	H	H	CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	F	OH
	XXI-31-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	F	OH
	XXI-31-5	CH ₃	H	H	CH ₂ Ph	ⁿ Bu	H	CH ₃	F	OH
	XXI-31-6	CH ₃	H	H	CH ₂ -indol-3-yl	ⁿ Bu	H	CH ₃	F	OH
	XXI-31-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	H	CH ₃	F	OH
65	XXI-31-8	CH ₃	*	H	*	ⁿ Bu	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

449

TABLE XXI-32

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXI-32-1	Et	H	H	H	"Bu	H	CH ₃	F	OH
XXI-32-2	Et	H	H	CH ₃	"Bu	H	CH ₃	F	OH
XXI-32-3	Et	H	H	CH(CH ₃) ₂	"Bu	H	CH ₃	F	OH
XXI-32-4	Et	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	CH ₃	F	OH
XXI-32-5	Et	H	H	CH ₂ Ph	"Bu	H	CH ₃	F	OH
XXI-32-6	Et	H	H	CH ₂ -indol-3-yl	"Bu	H	CH ₃	F	OH
XXI-32-7	Et	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	CH ₃	F	OH
XXI-32-8	Et	*	H	*	"Bu	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXI-33

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXI-33-1	^t Pr	H	H	H	"Bu	H	CH ₃	F	OH
XXI-33-2	^t Pr	H	H	CH ₃	"Bu	H	CH ₃	F	OH
XXI-33-3	^t Pr	H	H	CH(CH ₃) ₂	"Bu	H	CH ₃	F	OH
XXI-33-4	^t Pr	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	CH ₃	F	OH
XXI-33-5	^t Pr	H	H	CH ₂ Ph	"Bu	H	CH ₃	F	OH
XXI-33-6	^t Pr	H	H	CH ₂ -indol-3-yl	"Bu	H	CH ₃	F	OH
XXI-33-7	^t Pr	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	CH ₃	F	OH
XXI-33-8	^t Pr	*	H	*	"Bu	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXI-34

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXI-34-1	"Bu	H	H	H	"Bu	H	CH ₃	F	OH
XXI-34-2	"Bu	H	H	CH ₃	"Bu	H	CH ₃	F	OH
XXI-34-3	"Bu	H	H	CH(CH ₃) ₂	"Bu	H	CH ₃	F	OH
XXI-34-4	"Bu	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	CH ₃	F	OH
XXI-34-5	"Bu	H	H	CH ₂ Ph	"Bu	H	CH ₃	F	OH
XXI-34-6	"Bu	H	H	CH ₂ -indol-3-yl	"Bu	H	CH ₃	F	OH
XXI-34-7	"Bu	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	CH ₃	F	OH
XXI-34-8	"Bu	*	H	*	"Bu	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXI-35

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXI-35-1	Ph	H	H	H	"Bu	H	CH ₃	F	OH
XXI-35-2	Ph	H	H	CH ₃	"Bu	H	CH ₃	F	OH
XXI-35-3	Ph	H	H	CH(CH ₃) ₂	"Bu	H	CH ₃	F	OH
XXI-35-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	CH ₃	F	OH
XXI-35-5	Ph	H	H	CH ₂ Ph	"Bu	H	CH ₃	F	OH
XXI-35-6	Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	CH ₃	F	OH
XXI-35-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	CH ₃	F	OH
XXI-35-8	Ph	*	H	*	"Bu	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXI-36

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXI-36-1	p-Me—Ph	H	H	H	"Bu	H	CH ₃	F	OH
XXI-36-2	p-Me—Ph	H	H	CH ₃	"Bu	H	CH ₃	F	OH
XXI-36-3	p-Me—Ph	H	H	CH(CH ₃) ₂	"Bu	H	CH ₃	F	OH
XXI-36-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	CH ₃	F	OH
XXI-36-5	p-Me—Ph	H	H	CH ₂ Ph	"Bu	H	CH ₃	F	OH
XXI-36-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	CH ₃	F	OH
XXI-36-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	CH ₃	F	OH
XXI-36-8	p-Me—Ph	*	H	*	"Bu	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

450

TABLE XXI-37

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXI-37-1	p-F—Ph	H	H	H	"Bu	H	CH ₃	F	OH
XXI-37-2	p-F—Ph	H	H	CH ₃	"Bu	H	CH ₃	F	OH
XXI-37-3	p-F—Ph	H	H	CH(CH ₃) ₂	"Bu	H	CH ₃	F	OH
XXI-37-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	CH ₃	F	OH
XXI-37-5	p-F—Ph	H	H	CH ₂ Ph	"Bu	H	CH ₃	F	OH
XXI-37-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	CH ₃	F	OH
XXI-37-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	CH ₃	F	OH
XXI-37-8	p-F—Ph	*	H	*	"Bu	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

15

TABLE XXI-38

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXI-38-1	p-Cl—Ph	H	H	H	"Bu	H	CH ₃	F	OH
XXI-38-2	p-Cl—Ph	H	H	CH ₃	"Bu	H	CH ₃	F	OH
XXI-38-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	"Bu	H	CH ₃	F	OH
XXI-38-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	CH ₃	F	OH
XXI-38-5	p-Cl—Ph	H	H	CH ₂ Ph	"Bu	H	CH ₃	F	OH
XXI-38-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	CH ₃	F	OH
XXI-38-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	CH ₃	F	OH
XXI-38-8	p-Cl—Ph	*	H	*	"Bu	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

30

TABLE XXI-39

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXI-39-1	p-Br—Ph	H	H	H	"Bu	H	CH ₃	F	OH
XXI-39-2	p-Br—Ph	H	H	CH ₃	"Bu	H	CH ₃	F	OH
XXI-39-3	p-Br—Ph	H	H	CH(CH ₃) ₂	"Bu	H	CH ₃	F	OH
XXI-39-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	CH ₃	F	OH
XXI-39-5	p-Br—Ph	H	H	CH ₂ Ph	"Bu	H	CH ₃	F	OH
XXI-39-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	CH ₃	F	OH
XXI-39-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	CH ₃	F	OH
XXI-39-8	p-Br—Ph	*	H	*	"Bu	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

40

TABLE XXI-40

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXI-40-1	p-I—Ph	H	H	H	"Bu	H	CH ₃	F	OH
XXI-40-2	p-I—Ph	H	H	CH ₃	"Bu	H	CH ₃	F	OH
XXI-40-3	p-I—Ph	H	H	CH(CH ₃) ₂	"Bu	H	CH ₃	F	OH
XXI-40-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	CH ₃	F	OH
XXI-40-5	p-I—Ph	H	H	CH ₂ Ph	"Bu	H	CH ₃	F	OH
XXI-40-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	CH ₃	F	OH
XXI-40-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	CH ₃	F	OH
XXI-40-8	p-I—Ph	*	H	*	"Bu	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

55

TABLE XXI-41

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXI-41-1	CH ₃	H	H	H	Bz	H	CH ₃	F	OH
XXI-41-2	CH ₃	H	H	CH ₃	Bz	H	CH ₃	F	OH
XXI-41-3	CH ₃	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	F	OH
XXI-41-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	F	OH
XXI-41-5	CH ₃	H	H	CH ₂ Ph	Bz	H	CH ₃	F	OH
XXI-41-6	CH ₃	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	F	OH
XXI-41-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	F	OH
XXI-41-8	CH ₃	*	H	*	Bz	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

65

451

TABLE XXI-42

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXI-42-1	Et	H	H	H	Bz	H	CH ₃	F	OH
XXI-42-2	Et	H	H	CH ₃	Bz	H	CH ₃	F	OH
XXI-42-3	Et	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	F	OH
XXI-42-4	Et	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	F	OH
XXI-42-5	Et	H	H	CH ₂ Ph	Bz	H	CH ₃	F	OH
XXI-42-6	Et	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	F	OH
XXI-42-7	Et	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	F	OH
XXI-42-8	Et	*	H	*	Bz	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXI-43

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXI-43-1	^t Pr	H	H	H	Bz	H	CH ₃	F	OH
XXI-43-2	^t Pr	H	H	CH ₃	Bz	H	CH ₃	F	OH
XXI-43-3	^t Pr	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	F	OH
XXI-43-4	^t Pr	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	F	OH
XXI-43-5	^t Pr	H	H	CH ₂ Ph	Bz	H	CH ₃	F	OH
XXI-43-6	^t Pr	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	F	OH
XXI-43-7	^t Pr	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	F	OH
XXI-43-8	^t Pr	*	H	*	Bz	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXI-44

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXI-44-1	^t Bu	H	H	H	Bz	H	CH ₃	F	OH
XXI-44-2	^t Bu	H	H	CH ₃	Bz	H	CH ₃	F	OH
XXI-44-3	^t Bu	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	F	OH
XXI-44-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	F	OH
XXI-44-5	^t Bu	H	H	CH ₂ Ph	Bz	H	CH ₃	F	OH
XXI-44-6	^t Bu	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	F	OH
XXI-44-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	F	OH
XXI-44-8	^t Bu	*	H	*	Bz	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXI-45

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXI-45-1	Ph	H	H	H	Bz	H	CH ₃	F	OH
XXI-45-2	Ph	H	H	CH ₃	Bz	H	CH ₃	F	OH
XXI-45-3	Ph	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	F	OH
XXI-45-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	F	OH
XXI-45-5	Ph	H	H	CH ₂ Ph	Bz	H	CH ₃	F	OH
XXI-45-6	Ph	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	F	OH
XXI-45-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	F	OH
XXI-45-8	Ph	*	H	*	Bz	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXI-46

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXI-46-1	p-Me—Ph	H	H	H	Bz	H	CH ₃	F	OH
XXI-46-2	p-Me—Ph	H	H	CH ₃	Bz	H	CH ₃	F	OH
XXI-46-3	p-Me—P—H	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	F	OH
XXI-46-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	F	OH
XXI-46-5	p-Me—Ph	H	H	CH ₂ Ph	Bz	H	CH ₃	F	OH
XXI-46-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	F	OH
XXI-46-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	F	OH
XXI-46-8	p-Me—Ph	*	H	*	Bz	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

452

TABLE XXI-47

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXI-47-1	p-F—Ph	H	H	H	Bz	H	CH ₃	F	OH
XXI-47-2	p-F—Ph	H	H	CH ₃	Bz	H	CH ₃	F	OH
XXI-47-3	p-F—Ph	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	F	OH
XXI-47-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	F	OH
XXI-47-5	p-F—Ph	H	H	CH ₂ Ph	Bz	H	CH ₃	F	OH
XXI-47-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	F	OH
XXI-47-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	F	OH
XXI-47-8	p-F—Ph	*	H	*	Bz	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

15

TABLE XXI-48

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXI-48-1	p-Cl—Ph	H	H	H	Bz	H	CH ₃	F	OH
XXI-48-2	p-Cl—Ph	H	H	CH ₃	Bz	H	CH ₃	F	OH
XXI-48-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	F	OH
XXI-48-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	F	OH
XXI-48-5	p-Cl—Ph	H	H	CH ₂ Ph	Bz	H	CH ₃	F	OH
XXI-48-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	F	OH
XXI-48-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	F	OH
XXI-48-8	p-Cl—Ph	*	H	*	Bz	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

35

TABLE XXI-49

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXI-49-1	p-Br—Ph	H	H	H	Bz	H	CH ₃	F	OH
XXI-49-2	p-Br—Ph	H	H	CH ₃	Bz	H	CH ₃	F	OH
XXI-49-3	p-Br—Ph	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	F	OH
XXI-49-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	F	OH
XXI-49-5	p-Br—Ph	H	H	CH ₂ Ph	Bz	H	CH ₃	F	OH
XXI-49-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	F	OH
XXI-49-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	F	OH
XXI-49-8	p-Br—Ph	*	H	*	Bz	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

55

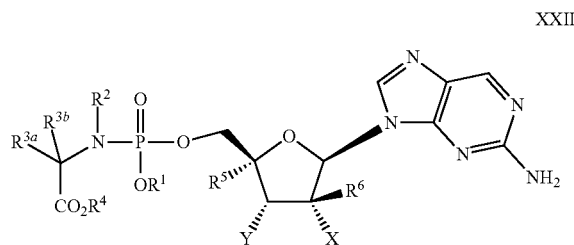
TABLE XXI-50

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXI-50-1	p-I—Ph	H	H	H	Bz	H	CH ₃	F	OH
XXI-50-2	p-I—Ph	H	H	CH ₃	Bz	H	CH ₃	F	OH
XXI-50-3	p-I—Ph	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	F	OH
XXI-50-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	F	OH
XXI-50-5	p-I—Ph	H	H	CH ₂ Ph	Bz	H	CH ₃	F	OH
XXI-50-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	F	OH
XXI-50-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	F	OH
XXI-50-8	p-I—Ph	*	H	*	Bz	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

65

453



XXII

TABLE XXII-1

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXII-1-1	CH ₃	H	H	H	CH ₃	H	F	H	OH
XXII-1-2	CH ₃	H	H	CH ₃	CH ₃	H	F	H	OH
XXII-1-3	CH ₃	H	H	CH(CH ₃) ₂	CH ₃	H	F	H	OH
XXII-1-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	H	OH
XXII-1-5	CH ₃	H	H	CH ₂ Ph	CH ₃	H	F	H	OH
XXII-1-6	CH ₃	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	H	OH
XXII-1-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	H	OH
XXII-1-8	CH ₃	*	H	*	CH ₃	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXII-2

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXII-2-1	Et	H	H	H	CH ₃	H	F	H	OH
XXII-2-2	Et	H	H	CH ₃	CH ₃	H	F	H	OH
XXII-2-3	Et	H	H	CH(CH ₃) ₂	CH ₃	H	F	H	OH
XXII-2-4	Et	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	H	OH
XXII-2-5	Et	H	H	CH ₂ Ph	CH ₃	H	F	H	OH
XXII-2-6	Et	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	H	OH
XXII-2-7	Et	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	H	OH
XXII-2-8	Et	*	H	*	CH ₃	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXII-3

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXII-3-1	^t Pr	H	H	H	CH ₃	H	F	H	OH
XXII-3-2	^t Pr	H	H	CH ₃	CH ₃	H	F	H	OH
XXII-3-3	^t Pr	H	H	CH(CH ₃) ₂	CH ₃	H	F	H	OH
XXII-3-4	^t Pr	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	H	OH
XXII-3-5	^t Pr	H	H	CH ₂ Ph	CH ₃	H	F	H	OH
XXII-3-6	^t Pr	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	H	OH
XXII-3-7	^t Pr	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	H	OH
XXII-3-8	^t Pr	*	H	*	CH ₃	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXII-4

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXII-4-1	^t Bu	H	H	H	CH ₃	H	F	H	OH
XXII-4-2	^t Bu	H	H	CH ₃	CH ₃	H	F	H	OH
XXII-4-3	^t Bu	H	H	CH(CH ₃) ₂	CH ₃	H	F	H	OH
XXII-4-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	H	OH
XXII-4-5	^t Bu	H	H	CH ₂ Ph	CH ₃	H	F	H	OH
XXII-4-6	^t Bu	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	H	OH
XXII-4-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	H	OH
XXII-4-8	^t Bu	*	H	*	CH ₃	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

454

TABLE XXII-5

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	
5	XXII-5-1	Ph	H	H	H	CH ₃	H	F	H	OH
	XXII-5-2	Ph	H	H	CH ₃	CH ₃	H	F	H	OH
	XXII-5-3	Ph	H	H	CH(CH ₃) ₂	CH ₃	H	F	H	OH
	XXII-5-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	H	OH
	XXII-5-5	Ph	H	H	CH ₂ Ph	CH ₃	H	F	H	OH
10	XXII-5-6	Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	H	OH
	XXII-5-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	H	OH
	XXII-5-8	Ph	*	H	*	CH ₃	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

15

TABLE XXII-6

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	
20	XXII-6-1	p-Me-Ph	H	H	H	CH ₃	H	F	H	OH
	XXII-6-2	p-Me-Ph	H	H	CH ₃	CH ₃	H	F	H	OH
	XXII-6-3	p-Me-Ph	H	H	CH(CH ₃) ₂	CH ₃	H	F	H	OH
25	XXII-6-4	p-Me-Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	H	OH
	XXII-6-5	p-Me-Ph	H	H	CH ₂ Ph	CH ₃	H	F	H	OH
	XXII-6-6	p-Me-Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	H	OH
30	XXII-6-7	p-Me-Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	H	OH
	XXII-6-8	p-Me-Ph	*	H	*	CH ₃	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

35

TABLE XXII-7

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	
40	XXII-7-1	p-F-Ph	H	H	H	CH ₃	H	F	H	OH
	XXII-7-2	p-F-Ph	H	H	CH ₃	CH ₃	H	F	H	OH
	XXII-7-3	p-F-Ph	H	H	CH(CH ₃) ₂	CH ₃	H	F	H	OH
	XXII-7-4	p-F-Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	H	OH
	XXII-7-6	p-F-Ph	H	H	CH ₂ Ph	CH ₃	H	F	H	OH
	XXII-7-7	p-F-Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	H	OH
	XXII-7-8	p-F-Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	H	OH
45	XXII-7-20	p-F-Ph	*	H	*	CH ₃	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

50

TABLE XXII-8

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	
55	XXII-8-1	p-Cl-Ph	H	H	H	CH ₃	H	F	H	OH
	XXII-8-2	p-Cl-Ph	H	H	CH ₃	CH ₃	H	F	H	OH
	XXII-8-3	p-Cl-Ph	H	H	CH(CH ₃) ₂	CH ₃	H	F	H	OH
	XXII-8-4	p-Cl-Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	H	OH
	XXII-8-5	p-Cl-Ph	H	H	CH ₂ Ph	CH ₃	H	F	H	OH
60	XXII-8-6	p-Cl-Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	H	OH
	XXII-8-7	p-Cl-Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	H	OH
	XXII-8-8	p-Cl-Ph	*	H	*	CH ₃	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

65

455

TABLE XXII-9

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXII-9-1	p-Br—Ph	H	H	H	CH ₃	H	F	H	OH
XXII-9-2	p-Br—Ph	H	H	CH ₃	CH ₃	H	F	H	OH
XXII-9-3	p-Br—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	F	H	OH
XXII-9-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	H	OH
XXII-9-6	p-Br—Ph	H	H	CH ₂ Ph	CH ₃	H	F	H	OH
XXII-9-7	p-Br—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	H	OH
XXII-9-8	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	H	OH
XXII-9-20	p-Br—Ph	*	H	*	CH ₃	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXII-10

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXII-10-1	p-I—Ph	H	H	H	CH ₃	H	F	H	OH
XXII-10-2	p-I—Ph	H	H	CH ₃	CH ₃	H	F	H	OH
XXII-10-3	p-I—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	F	H	OH
XXII-10-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	H	OH
XXII-10-5	p-I—Ph	H	H	CH ₂ Ph	CH ₃	H	F	H	OH
XXII-10-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	H	OH
XXII-10-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	H	OH
XXII-10-8	p-I—Ph	*	H	*	CH ₃	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXII-11

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXII-11-1	CH ₃	H	H	H	Et	H	F	H	OH
XXII-11-2	CH ₃	H	H	CH ₃	Et	H	F	H	OH
XXII-11-3	CH ₃	H	H	CH(CH ₃) ₂	Et	H	F	H	OH
XXII-11-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	H	OH
XXII-11-5	CH ₃	H	H	CH ₂ Ph	Et	H	F	H	OH
XXII-11-6	CH ₃	H	H	CH ₂ -indol-3-yl	Et	H	F	H	OH
XXII-11-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	H	OH
XXII-11-8	CH ₃	*	H	*	Et	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXII-12

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXII-12-1	Et	H	H	H	Et	H	F	H	OH
XXII-12-2	Et	H	H	CH ₃	Et	H	F	H	OH
XXII-12-3	Et	H	H	CH(CH ₃) ₂	Et	H	F	H	OH
XXII-12-4	Et	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	H	OH
XXII-12-5	Et	H	H	CH ₂ Ph	Et	H	F	H	OH
XXII-12-6	Et	H	H	CH ₂ -indol-3-yl	Et	H	F	H	OH
XXII-12-7	Et	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	H	OH
XXII-12-8	Et	*	H	*	Et	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXII-13

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXII-13-1	ⁱ Pr	H	H	H	Et	H	F	H	OH
XXII-13-2	ⁱ Pr	H	H	CH ₃	Et	H	F	H	OH
XXII-13-3	ⁱ Pr	H	H	CH(CH ₃) ₂	Et	H	F	H	OH
XXII-13-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	H	OH
XXII-13-5	ⁱ Pr	H	H	CH ₂ Ph	Et	H	F	H	OH

456

TABLE XXII-13-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXII-13-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	Et	H	F	H	OH
XXII-13-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	H	OH
XXII-13-8	ⁱ Pr	*	H	*	Et	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXII-14

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXII-14-1	^t Bu	H	H	H	Et	H	F	H	OH
XXII-14-2	^t Bu	H	H	CH ₃	Et	H	F	H	OH
XXII-14-3	^t Bu	H	H	CH(CH ₃) ₂	Et	H	F	H	OH
XXII-14-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	H	OH
XXII-14-5	^t Bu	H	H	CH ₂ Ph	Et	H	F	H	OH
XXII-14-6	^t Bu	H	H	CH ₂ -indol-3-yl	Et	H	F	H	OH
XXII-14-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	H	OH
XXII-14-8	^t Bu	*	H	*	Et	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXII-15

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXII-15-1	Ph	H	H	H	Et	H	F	H	OH
XXII-15-2	Ph	H	H	CH ₃	Et	H	F	H	OH
XXII-15-3	Ph	H	H	CH(CH ₃) ₂	Et	H	F	H	OH
XXII-15-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	H	OH
XXII-15-5	Ph	H	H	CH ₂ Ph	Et	H	F	H	OH
XXII-15-6	Ph	H	H	CH ₂ -indol-3-yl	Et	H	F	H	OH
XXII-15-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	H	OH
XXII-15-8	Ph	*	H	*	Et	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXII-16

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXII-16-1	p-Me—Ph	H	H	H	Et	H	F	H	OH
XXII-16-2	p-Me—Ph	H	H	CH ₃	Et	H	F	H	OH
XXII-16-3	p-Me—Ph	H	H	CH(CH ₃) ₂	Et	H	F	H	OH
XXII-16-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	H	OH
XXII-16-5	p-Me—Ph	H	H	CH ₂ Ph	Et	H	F	H	OH
XXII-16-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	Et	H	F	H	OH
XXII-16-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	H	OH
XXII-16-8	p-Me—Ph	*	H	*	Et	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXII-17

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXII-17-1	p-F—Ph	H	H	H	Et	H	F	H	OH
XXII-17-2	p-F—Ph	H	H	CH ₃	Et	H	F	H	OH
XXII-17-3	p-F—Ph	H	H	CH(CH ₃) ₂	Et	H	F	H	OH
XXII-17-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	H	OH
XXII-17-5	p-F—Ph	H	H	CH ₂ Ph	Et	H	F	H	OH
XXII-17-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	Et	H	F	H	OH
XXII-17-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	H	OH
XXII-17-8	p-F—Ph	*	H	*	Et	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

457

TABLE XXII-18

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXII-18-1	p-Cl—Ph	H	H	H	Et	H	F	H	OH
XXII-18-2	p-Cl—Ph	H	H	CH ₃	Et	H	F	H	OH
XXII-18-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	Et	H	F	H	OH
XXII-18-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	H	OH
XXII-18-5	p-Cl—Ph	H	H	CH ₂ Ph	Et	H	F	H	OH
XXII-18-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	Et	H	F	H	OH
XXII-18-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	H	OH
XXII-18-8	p-Cl—Ph	*	H	*	Et	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXII-19

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXII-19-1	p-Br—Ph	H	H	H	Et	H	F	H	OH
XXII-19-2	p-Br—Ph	H	H	CH ₃	Et	H	F	H	OH
XXII-19-3	p-Br—Ph	H	H	CH(CH ₃) ₂	Et	H	F	H	OH
XXII-19-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	H	OH
XXII-19-5	p-Br—Ph	H	H	CH ₂ Ph	Et	H	F	H	OH
XXII-19-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	Et	H	F	H	OH
XXII-19-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	H	OH
XXII-19-8	p-Br—Ph	*	H	*	Et	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXII-20

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXII-20-1	p-I—Ph	H	H	H	Et	H	F	H	OH
XXII-20-2	p-I—Ph	H	H	CH ₃	Et	H	F	H	OH
XXII-20-3	p-I—Ph	H	H	CH(CH ₃) ₂	Et	H	F	H	OH
XXII-20-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	H	OH
XXII-20-5	p-I—Ph	H	H	CH ₂ Ph	Et	H	F	H	OH
XXII-20-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	Et	H	F	H	OH
XXII-20-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	H	OH
XXII-20-8	p-I—Ph	*	H	*	Et	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXII-21

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXII-21-1	CH ₃	H	H	H	ⁱ Pr	H	F	H	OH
XXII-21-2	CH ₃	H	H	CH ₃	ⁱ Pr	H	F	H	OH
XXII-21-3	CH ₃	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH
XXII-21-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH
XXII-21-5	CH ₃	H	H	CH ₂ Ph	ⁱ Pr	H	F	H	OH
XXII-21-6	CH ₃	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	H	OH
XXII-21-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	H	OH
XXII-21-8	CH ₃	*	H	*	ⁱ Pr	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXII-22

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXII-22-1	Et	H	H	H	ⁱ Pr	H	F	H	OH
XXII-22-2	Et	H	H	CH ₃	ⁱ Pr	H	F	H	OH
XXII-22-3	Et	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH
XXII-22-4	Et	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH
XXII-22-5	Et	H	H	CH ₂ Ph	ⁱ Pr	H	F	H	OH
XXII-22-6	Et	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	H	OH
XXII-22-7	Et	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	H	OH
XXII-22-8	Et	*	H	*	ⁱ Pr	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

458

TABLE XXII-23

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
5 XXII-23-1	ⁱ Pr	H	H	H	ⁱ Pr	H	F	H	OH
XXII-23-2	ⁱ Pr	H	H	CH ₃	ⁱ Pr	H	F	H	OH
XXII-23-3	ⁱ Pr	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH
XXII-23-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH
XXII-23-5	ⁱ Pr	H	H	CH ₂ Ph	ⁱ Pr	H	F	H	OH
10 XXII-23-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	H	OH
XXII-23-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	H	OH
XXII-23-8	ⁱ Pr	*	H	*	ⁱ Pr	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

15

TABLE XXII-24

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
20 XXII-24-1	^t Bu	H	H	H	ⁱ Pr	H	F	H	OH
XXII-24-2	^t Bu	H	H	CH ₃	ⁱ Pr	H	F	H	OH
XXII-24-3	^t Bu	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH
XXII-24-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH
XXII-24-5	^t Bu	H	H	CH ₂ Ph	ⁱ Pr	H	F	H	OH
XXII-24-6	^t Bu	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	H	OH
25 XXII-24-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	H	OH
XXII-24-8	^t Bu	*	H	*	ⁱ Pr	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

30

TABLE XXII-25

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXII-25-1	Ph	H	H	H	ⁱ Pr	H	F	H	OH
XXII-25-2	Ph	H	H	CH ₃	ⁱ Pr	H	F	H	OH
XXII-25-3	Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH
35 XXII-25-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH
XXII-25-5	Ph	H	H	CH ₂ Ph	ⁱ Pr	H	F	H	OH
XXII-25-6	Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	H	OH
XXII-25-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	H	OH
XXII-25-8	Ph	*	H	*	ⁱ Pr	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

40

TABLE XXII-26

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
45 XXII-26-1	p-Me—Ph	H	H	H	ⁱ Pr	H	F	H	OH
XXII-26-2	p-Me—Ph	H	H	CH ₃	ⁱ Pr	H	F	H	OH
XXII-26-3	p-Me—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH
XXII-26-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH
XXII-26-5	p-Me—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	F	H	OH
50 XXII-26-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	H	OH
XXII-26-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	H	OH
XXII-26-8	p-Me—Ph	*	H	*	ⁱ Pr	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

55

TABLE XXII-27

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXII-27-1	p-F—Ph	H	H	H	ⁱ Pr	H	F	H	OH
XXII-27-2	p-F—Ph	H	H	CH ₃	ⁱ Pr	H	F	H	OH
60 XXII-27-3	p-F—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH
XXII-27-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH
XXII-27-5	p-F—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	F	H	OH
XXII-27-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	H	OH
XXII-27-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	H	OH
65 XXII-27-8	p-F—Ph	*	H	*	ⁱ Pr	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

459

TABLE XXII-28

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXII-28-1	p-Cl—Ph	H	H	H	ⁱ Pr	H	F	H	OH
XXII-28-2	p-Cl—Ph	H	H	CH ₃	ⁱ Pr	H	F	H	OH
XXII-28-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH
XXII-28-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH
XXII-28-5	p-Cl—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	F	H	OH
XXII-28-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	H	OH
XXII-28-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	H	OH
XXII-28-8	p-Cl—Ph	*	H	*	ⁱ Pr	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXII-29

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXII-29-1	p-Br—Ph	H	H	H	ⁱ Pr	H	F	H	OH
XXII-29-2	p-Br—Ph	H	H	CH ₃	ⁱ Pr	H	F	H	OH
XXII-29-3	p-Br—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH
XXII-29-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH
XXII-29-5	p-Br—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	F	H	OH
XXII-29-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	H	OH
XXII-29-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	H	OH
XXII-29-8	p-Br—Ph	*	H	*	ⁱ Pr	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXII-30

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXII-30-1	p-I—Ph	H	H	H	ⁱ Pr	H	F	H	OH
XXII-30-2	p-I—Ph	H	H	CH ₃	ⁱ Pr	H	F	H	OH
XXII-30-3	p-I—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH
XXII-30-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH
XXII-30-5	p-I—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	F	H	OH
XXII-30-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	H	OH
XXII-30-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	H	OH
XXII-30-8	p-I—Ph	*	H	*	ⁱ Pr	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXII-31

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXII-31-1	CH ₃	H	H	H	"Bu	H	F	H	OH
XXII-31-2	CH ₃	H	H	CH ₃	"Bu	H	F	H	OH
XXII-31-3	CH ₃	H	H	CH(CH ₃) ₂	"Bu	H	F	H	OH
XXII-31-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	H	OH
XXII-31-5	CH ₃	H	H	CH ₂ Ph	"Bu	H	F	H	OH
XXII-31-6	CH ₃	H	H	CH ₂ -indol-3-yl	"Bu	H	F	H	OH
XXII-31-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	H	OH
XXII-31-8	CH ₃	*	H	*	"Bu	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXII-32

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXII-32-1	Et	H	H	H	"Bu	H	F	H	OH
XXII-32-2	Et	H	H	CH ₃	"Bu	H	F	H	OH
XXII-32-3	Et	H	H	CH(CH ₃) ₂	"Bu	H	F	H	OH
XXII-32-4	Et	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	H	OH
XXII-32-5	Et	H	H	CH ₂ Ph	"Bu	H	F	H	OH
XXII-32-6	Et	H	H	CH ₂ -indol-3-yl	"Bu	H	F	H	OH
XXII-32-7	Et	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	H	OH
XXII-32-8	Et	*	H	*	"Bu	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

460

TABLE XXII-33

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXII-33-1	ⁱ Pr	H	H	H	"Bu	H	F	H	OH
XXII-33-2	ⁱ Pr	H	H	CH ₃	"Bu	H	F	H	OH
XXII-33-3	ⁱ Pr	H	H	CH(CH ₃) ₂	"Bu	H	F	H	OH
XXII-33-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	H	OH
XXII-33-5	ⁱ Pr	H	H	CH ₂ Ph	"Bu	H	F	H	OH
XXII-33-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	"Bu	H	F	H	OH
XXII-33-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	H	OH
XXII-33-8	ⁱ Pr	*	H	*	"Bu	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

15

TABLE XXII-34

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXII-34-1	"Bu	H	H	H	"Bu	H	F	H	OH
XXII-34-2	"Bu	H	H	CH ₃	"Bu	H	F	H	OH
XXII-34-3	"Bu	H	H	CH(CH ₃) ₂	"Bu	H	F	H	OH
XXII-34-4	"Bu	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	H	OH
XXII-34-5	"Bu	H	H	CH ₂ Ph	"Bu	H	F	H	OH
XXII-34-6	"Bu	H	H	CH ₂ -indol-3-yl	"Bu	H	F	H	OH
XXII-34-7	"Bu	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	H	OH
XXII-34-8	"Bu	*	H	*	"Bu	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

30

TABLE XXII-35

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXII-35-1	Ph	H	H	H	"Bu	H	F	H	OH
XXII-35-2	Ph	H	H	CH ₃	"Bu	H	F	H	OH
XXII-35-3	Ph	H	H	CH(CH ₃) ₂	"Bu	H	F	H	OH
XXII-35-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	H	OH
XXII-35-5	Ph	H	H	CH ₂ Ph	"Bu	H	F	H	OH
XXII-35-6	Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	F	H	OH
XXII-35-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	H	OH
XXII-35-8	Ph	*	H	*	"Bu	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

40

TABLE XXII-36

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXII-36-1	p-Me—Ph	H	H	H	"Bu	H	F	H	OH
XXII-36-2	p-Me—Ph	H	H	CH ₃	"Bu	H	F	H	OH
XXII-36-3	p-Me—Ph	H	H	CH(CH ₃) ₂	"Bu	H	F	H	OH
XXII-36-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	H	OH
XXII-36-5	p-Me—Ph	H	H	CH ₂ Ph	"Bu	H	F	H	OH
XXII-36-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	F	H	OH
XXII-36-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	H	OH
XXII-36-8	p-Me—Ph	*	H	*	"Bu	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

55

TABLE XXII-37

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXII-37-1	p-F—Ph	H	H	H	"Bu	H	F	H	OH
XXII-37-2	p-F—Ph	H	H	CH ₃	"Bu	H	F	H	OH
XXII-37-3	p-F—Ph	H	H	CH(CH ₃) ₂	"Bu	H	F	H	OH
XXII-37-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	H	OH
XXII-37-5	p-F—Ph	H	H	CH ₂ Ph	"Bu	H	F	H	OH
XXII-37-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	F	H	OH
XXII-37-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	H	OH
XXII-37-8	p-F—Ph	*	H	*	"Bu	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

65

461

TABLE XXII-38

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXII-38-1	p-Cl—Ph	H	H	H	"Bu	H	F	H	OH
XXII-38-2	p-Cl—Ph	H	H	CH ₃	"Bu	H	F	H	OH
XXII-38-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	"Bu	H	F	H	OH
XXII-38-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	H	OH
XXII-38-5	p-Cl—Ph	H	H	CH ₂ Ph	"Bu	H	F	H	OH
XXII-38-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	F	H	OH
XXII-38-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	H	OH
XXII-38-8	p-Cl—Ph	*	H	*	"Bu	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXII-39

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXII-39-1	p-Br—Ph	H	H	H	"Bu	H	F	H	OH
XXII-39-2	p-Br—Ph	H	H	CH ₃	"Bu	H	F	H	OH
XXII-39-3	p-Br—Ph	H	H	CH(CH ₃) ₂	"Bu	H	F	H	OH
XXII-39-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	H	OH
XXII-39-5	p-Br—Ph	H	H	CH ₂ Ph	"Bu	H	F	H	OH
XXII-39-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	F	H	OH
XXII-39-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	H	OH
XXII-39-8	p-Br—Ph	*	H	*	"Bu	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXII-40

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXII-40-1	p-I—Ph	H	H	H	"Bu	H	F	H	OH
XXII-40-2	p-I—Ph	H	H	CH ₃	"Bu	H	F	H	OH
XXII-40-3	p-I—Ph	H	H	CH(CH ₃) ₂	"Bu	H	F	H	OH
XXII-40-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	H	OH
XXII-40-5	p-I—Ph	H	H	CH ₂ Ph	"Bu	H	F	H	OH
XXII-40-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	F	H	OH
XXII-40-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	H	OH
XXII-40-8	p-I—Ph	*	H	*	"Bu	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXII-41

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXII-41-1	CH ₃	H	H	H	Bz	H	F	H	OH
XXII-41-2	CH ₃	H	H	CH ₃	Bz	H	F	H	OH
XXII-41-3	CH ₃	H	H	CH(CH ₃) ₂	Bz	H	F	H	OH
XXII-41-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	H	OH
XXII-41-5	CH ₃	H	H	CH ₂ Ph	Bz	H	F	H	OH
XXII-41-6	CH ₃	H	H	CH ₂ -indol-3-yl	Bz	H	F	H	OH
XXII-41-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	H	OH
XXII-41-8	CH ₃	*	H	*	Bz	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXII-42

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXII-42-1	Et	H	H	H	Bz	H	F	H	OH
XXII-42-2	Et	H	H	CH ₃	Bz	H	F	H	OH
XXII-42-3	Et	H	H	CH(CH ₃) ₂	Bz	H	F	H	OH
XXII-42-4	Et	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	H	OH
XXII-42-5	Et	H	H	CH ₂ Ph	Bz	H	F	H	OH
XXII-42-6	Et	H	H	CH ₂ -indol-3-yl	Bz	H	F	H	OH
XXII-42-7	Et	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	H	OH
XXII-42-8	Et	*	H	*	Bz	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

462

TABLE XXII-43

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXII-43-1	ⁱ Pr	H	H	H	Bz	H	F	H	OH
XXII-43-2	ⁱ Pr	H	H	CH ₃	Bz	H	F	H	OH
XXII-43-3	ⁱ Pr	H	H	CH(CH ₃) ₂	Bz	H	F	H	OH
XXII-43-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	H	OH
XXII-43-5	ⁱ Pr	H	H	CH ₂ Ph	Bz	H	F	H	OH
XXII-43-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	Bz	H	F	H	OH
XXII-43-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	H	OH
XXII-43-8	ⁱ Pr	*	H	*	Bz	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

15

TABLE XXII-44

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXII-44-1	^t Bu	H	H	H	Bz	H	F	H	OH
XXII-44-2	^t Bu	H	H	CH ₃	Bz	H	F	H	OH
XXII-44-3	^t Bu	H	H	CH(CH ₃) ₂	Bz	H	F	H	OH
XXII-44-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	H	OH
XXII-44-5	^t Bu	H	H	CH ₂ Ph	Bz	H	F	H	OH
XXII-44-6	^t Bu	H	H	CH ₂ -indol-3-yl	Bz	H	F	H	OH
XXII-44-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	H	OH
XXII-44-8	^t Bu	*	H	*	Bz	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

30

TABLE XXII-45

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXII-45-1	Ph	H	H	H	Bz	H	F	H	OH
XXII-45-2	Ph	H	H	CH ₃	Bz	H	F	H	OH
XXII-45-3	Ph	H	H	CH(CH ₃) ₂	Bz	H	F	H	OH
XXII-45-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	H	OH
XXII-45-5	Ph	H	H	CH ₂ Ph	Bz	H	F	H	OH
XXII-45-6	Ph	H	H	CH ₂ -indol-3-yl	Bz	H	F	H	OH
XXII-45-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	H	OH
XXII-45-8	Ph	*	H	*	Bz	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

40

TABLE XXII-46

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXII-46-1	p-Me—Ph	H	H	H	Bz	H	F	H	OH
XXII-46-2	p-Me—Ph	H	H	CH ₃	Bz	H	F	H	OH
XXII-46-3	p-Me—Ph	H	H	CH(CH ₃) ₂	Bz	H	F	H	OH
XXII-46-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	H	OH
XXII-46-5	p-Me—Ph	H	H	CH ₂ Ph	Bz	H	F	H	OH
XXII-46-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	F	H	OH
XXII-46-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	H	OH
XXII-46-8	p-Me—Ph	*	H	*	Bz	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

55

TABLE XXII-47

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXII-47-1	p-F—Ph	H	H	H	Bz	H	F	H	OH
XXII-47-2	p-F—Ph	H	H	CH ₃	Bz	H	F	H	OH
XXII-47-3	p-F—Ph	H	H	CH(CH ₃) ₂	Bz	H	F	H	OH
XXII-47-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	H	OH
XXII-47-5	p-F—Ph	H	H	CH ₂ Ph	Bz	H	F	H	OH
XXII-47-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	F	H	OH
XXII-47-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	H	OH
XXII-47-8	p-F—Ph	*	H	*	Bz	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

65

463

TABLE XXII-48

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXII-48-1	p-Cl—Ph	H	H	H	Bz	H	F	H	OH
XXII-48-2	p-Cl—Ph	H	H	CH ₃	Bz	H	F	H	OH
XXII-48-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	Bz	H	F	H	OH
XXII-48-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	H	OH
XXII-48-5	p-Cl—Ph	H	H	CH ₂ Ph	Bz	H	F	H	OH
XXII-48-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	F	H	OH
XXII-48-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	H	OH
XXII-48-8	p-Cl—Ph	*	H	*	Bz	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

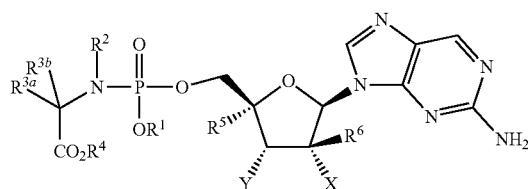
TABLE XXII-49

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXII-49-1	p-Br—Ph	H	H	H	Bz	H	F	H	OH
XXII-49-2	p-Br—Ph	H	H	CH ₃	Bz	H	F	H	OH
XXII-49-3	p-Br—Ph	H	H	CH(CH ₃) ₂	Bz	H	F	H	OH
XXII-49-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	H	OH
XXII-49-5	p-Br—Ph	H	H	CH ₂ Ph	Bz	H	F	H	OH
XXII-49-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	F	H	OH
XXII-49-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	H	OH
XXII-49-8	p-Br—Ph	*	H	*	Bz	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXII-50

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXII-50-1	p-I—Ph	H	H	H	Bz	H	F	H	OH
XXII-50-2	p-I—Ph	H	H	CH ₃	Bz	H	F	H	OH
XXII-50-3	p-I—Ph	H	H	CH(CH ₃) ₂	Bz	H	F	H	OH
XXII-50-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	H	OH
XXII-50-5	p-I—Ph	H	H	CH ₂ Ph	Bz	H	F	H	OH
XXII-50-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	F	H	OH
XXII-50-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	H	OH
XXII-50-8	p-I—Ph	*	H	*	Bz	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

XXIII

TABLE XXIII-1

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIII-1-1	CH ₃	H	H	H	CH ₃	H	F	F	OH
XXIII-1-2	CH ₃	H	H	CH ₃	CH ₃	H	F	F	OH
XXIII-1-3	CH ₃	H	H	CH(CH ₃) ₂	CH ₃	H	F	F	OH
XXIII-1-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	F	OH
XXIII-1-5	CH ₃	H	H	CH ₂ Ph	CH ₃	H	F	F	OH
XXIII-1-6	CH ₃	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	F	OH

464

TABLE XXIII-1-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIII-1-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	F	OH
XXIII-1-8	CH ₃	*	H	*	CH ₃	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIII-2

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIII-2-1	Et	H	H	H	CH ₃	H	F	F	OH
XXIII-2-2	Et	H	H	CH ₃	CH ₃	H	F	F	OH
XXIII-2-3	Et	H	H	CH(CH ₃) ₂	CH ₃	H	F	F	OH
XXIII-2-4	Et	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	F	OH
XXIII-2-5	Et	H	H	CH ₂ Ph	CH ₃	H	F	F	OH
XXIII-2-6	Et	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	F	OH
XXIII-2-7	Et	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	F	OH
XXIII-2-8	Et	*	H	*	CH ₃	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIII-3

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIII-3-1	ⁱ Pr	H	H	H	CH ₃	H	F	F	OH
XXIII-3-2	ⁱ Pr	H	H	CH ₃	CH ₃	H	F	F	OH
XXIII-3-3	ⁱ Pr	H	H	CH(CH ₃) ₂	CH ₃	H	F	F	OH
XXIII-3-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	F	OH
XXIII-3-5	ⁱ Pr	H	H	CH ₂ Ph	CH ₃	H	F	F	OH
XXIII-3-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	F	OH
XXIII-3-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	F	OH
XXIII-3-8	ⁱ Pr	*	H	*	CH ₃	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIII-4

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIII-4-1	^t Bu	H	H	H	CH ₃	H	F	F	OH
XXIII-4-2	^t Bu	H	H	CH ₃	CH ₃	H	F	F	OH
XXIII-4-3	^t Bu	H	H	CH(CH ₃) ₂	CH ₃	H	F	F	OH
XXIII-4-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	F	OH
XXIII-4-5	^t Bu	H	H	CH ₂ Ph	CH ₃	H	F	F	OH
XXIII-4-6	^t Bu	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	F	OH
XXIII-4-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	F	OH
XXIII-4-8	^t Bu	*	H	*	CH ₃	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIII-5

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIII-5-1	Ph	H	H	H	CH ₃	H	F	F	OH
XXIII-5-2	Ph	H	H	CH ₃	CH ₃	H	F	F	OH
XXIII-5-3	Ph	H	H	CH(CH ₃) ₂	CH ₃	H	F	F	OH
XXIII-5-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	F	OH
XXIII-5-5	Ph	H	H	CH ₂ Ph	CH ₃	H	F	F	OH
XXIII-5-6	Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	F	OH
XXIII-5-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	F	OH
XXIII-5-8	Ph	*	H	*	CH ₃	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIII-6

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIII-6-1	p-Me—Ph	H	H	H	CH ₃	H	F	F	OH
XXIII-6-2	p-Me—Ph	H	H	CH ₃	CH ₃	H	F	F	OH

TABLE XXIII-6-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIII-6-3	p-Me—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	F	F	OH
XXIII-6-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	F	OH
XXIII-6-5	p-Me—Ph	H	H	CH ₂ Ph	CH ₃	H	F	F	OH
XXIII-6-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	F	OH
XXIII-6-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	F	OH
XXIII-6-8	p-Me—Ph	*	H	*	CH ₃	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIII-7

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIII-7-1	p-F—Ph	H	H	H	CH ₃	H	F	F	OH
XXIII-7-2	p-F—Ph	H	H	CH ₃	CH ₃	H	F	F	OH
XXIII-7-3	p-F—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	F	F	OH
XXIII-7-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	F	OH
XXIII-7-6	p-F—Ph	H	H	CH ₂ Ph	CH ₃	H	F	F	OH
XXIII-7-7	p-F—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	F	OH
XXIII-7-8	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	F	OH
XXIII-7-20	p-F—Ph	*	H	*	CH ₃	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIII-8

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIII-8-1	p-Cl—Ph	H	H	H	CH ₃	H	F	F	OH
XXIII-8-2	p-Cl—Ph	H	H	CH ₃	CH ₃	H	F	F	OH
XXIII-8-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	F	F	OH
XXIII-8-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	F	OH
XXIII-8-5	p-Cl—Ph	H	H	CH ₂ Ph	CH ₃	H	F	F	OH
XXIII-8-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	F	OH
XXIII-8-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	F	OH
XXIII-8-8	p-Cl—Ph	*	H	*	CH ₃	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIII-9

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIII-9-1	p-Br—Ph	H	H	H	CH ₃	H	F	F	OH
XXIII-9-2	p-Br—Ph	H	H	CH ₃	CH ₃	H	F	F	OH
XXIII-9-3	p-Br—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	F	F	OH
XXIII-9-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	F	OH
XXIII-9-6	p-Br—Ph	H	H	CH ₂ Ph	CH ₃	H	F	F	OH
XXIII-9-7	p-Br—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	F	OH
XXIII-9-8	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	F	OH
XXIII-9-20	p-Br—Ph	*	H	*	CH ₃	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIII-10

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIII-10-1	p-I—Ph	H	H	H	CH ₃	H	F	F	OH
XXIII-10-2	p-I—Ph	H	H	CH ₃	CH ₃	H	F	F	OH
XXIII-10-3	p-I—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	F	F	OH
XXIII-10-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	F	OH
XXIII-10-5	p-I—Ph	H	H	CH ₂ Ph	CH ₃	H	F	F	OH
XXIII-10-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	F	OH
XXIII-10-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	F	OH
XXIII-10-8	p-I—Ph	*	H	*	CH ₃	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIII-11

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIII-11-1	CH ₃	H	H	H	Et	H	F	F	OH
XXIII-11-2	CH ₃	H	H	CH ₃	Et	H	F	F	OH
XXIII-11-3	CH ₃	H	H	CH(CH ₃) ₂	Et	H	F	F	OH
XXIII-11-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	F	OH
XXIII-11-5	CH ₃	H	H	CH ₂ Ph	Et	H	F	F	OH
XXIII-11-6	CH ₃	H	H	CH ₂ -indol-3-yl	Et	H	F	F	OH
XXIII-11-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	F	OH
XXIII-11-8	CH ₃	*	H	*	Et	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIII-12

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIII-12-1	Et	H	H	H	Et	H	F	F	OH
XXIII-12-2	Et	H	H	CH ₃	Et	H	F	F	OH
XXIII-12-3	Et	H	H	CH(CH ₃) ₂	Et	H	F	F	OH
XXIII-12-4	Et	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	F	OH
XXIII-12-5	Et	H	H	CH ₂ Ph	Et	H	F	F	OH
XXIII-12-6	Et	H	H	CH ₂ -indol-3-yl	Et	H	F	F	OH
XXIII-12-7	Et	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	F	OH
XXIII-12-8	Et	*	H	*	Et	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIII-13

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIII-13-1	ⁱ Pr	H	H	H	Et	H	F	F	OH
XXIII-13-2	ⁱ Pr	H	H	CH ₃	Et	H	F	F	OH
XXIII-13-3	ⁱ Pr	H	H	CH(CH ₃) ₂	Et	H	F	F	OH
XXIII-13-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	F	OH
XXIII-13-5	ⁱ Pr	H	H	CH ₂ Ph	Et	H	F	F	OH
XXIII-13-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	Et	H	F	F	OH
XXIII-13-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	F	OH
XXIII-13-8	ⁱ Pr	*	H	*	Et	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

467

TABLE XXIII-14

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIII-14-1	^t Bu	H	H	H	Et	H	F	F	OH
XXIII-14-2	^t Bu	H	H	CH ₃	Et	H	F	F	OH
XXIII-14-3	^t Bu	H	H	CH(CH ₃) ₂	Et	H	F	F	OH
XXIII-14-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	F	OH
XXIII-14-5	^t Bu	H	H	CH ₂ Ph	Et	H	F	F	OH
XXIII-14-6	^t Bu	H	H	CH ₂ -indol-3-yl	Et	H	F	F	OH
XXIII-14-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	F	OH
XXIII-14-8	^t Bu	*	H	*	Et	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIII-15

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIII-15-1	Ph	H	H	H	Et	H	F	F	OH
XXIII-15-2	Ph	H	H	CH ₃	Et	H	F	F	OH
XXIII-15-3	Ph	H	H	CH(CH ₃) ₂	Et	H	F	F	OH
XXIII-15-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	F	OH
XXIII-15-5	Ph	H	H	CH ₂ Ph	Et	H	F	F	OH
XXIII-15-6	Ph	H	H	CH ₂ -indol-3-yl	Et	H	F	F	OH
XXIII-15-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	F	OH
XXIII-15-8	Ph	*	H	*	Et	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIII-16

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIII-16-1	p-Me—Ph	H	H	H	Et	H	F	F	OH
XXIII-16-2	p-Me—Ph	H	H	CH ₃	Et	H	F	F	OH
XXIII-16-3	p-Me—Ph	H	H	CH(CH ₃) ₂	Et	H	F	F	OH
XXIII-16-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	F	OH
XXIII-16-5	p-Me—Ph	H	H	CH ₂ Ph	Et	H	F	F	OH
XXIII-16-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	Et	H	F	F	OH
XXIII-16-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	F	OH
XXIII-16-8	p-Me—Ph	*	H	*	Et	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIII-17

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIII-17-1	p-F—Ph	H	H	H	Et	H	F	F	OH
XXIII-17-2	p-F—Ph	H	H	CH ₃	Et	H	F	F	OH
XXIII-17-3	p-F—Ph	H	H	CH(CH ₃) ₂	Et	H	F	F	OH
XXIII-17-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	F	OH
XXIII-17-5	p-F—Ph	H	H	CH ₂ Ph	Et	H	F	F	OH
XXIII-17-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	Et	H	F	F	OH
XXIII-17-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	F	OH
XXIII-17-8	p-F—Ph	*	H	*	Et	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIII-18

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIII-18-1	p-Cl—Ph	H	H	H	Et	H	F	F	OH
XXIII-18-2	p-Cl—Ph	H	H	CH ₃	Et	H	F	F	OH
XXIII-18-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	Et	H	F	F	OH
XXIII-18-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	F	OH
XXIII-18-5	p-Cl—Ph	H	H	CH ₂ Ph	Et	H	F	F	OH
XXIII-18-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	Et	H	F	F	OH
XXIII-18-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	F	OH
XXIII-18-8	p-Cl—Ph	*	H	*	Et	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

468

TABLE XXIII-19

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	
5	XXIII-19-1	p-Br—Ph	H	H	H	Et	H	F	F	OH
	XXIII-19-2	p-Br—Ph	H	H	CH ₃	Et	H	F	F	OH
	XXIII-19-3	p-Br—Ph	H	H	CH(CH ₃) ₂	Et	H	F	F	OH
	XXIII-19-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	F	OH
	XXIII-19-5	p-Br—Ph	H	H	CH ₂ Ph	Et	H	F	F	OH
10	XXIII-19-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	Et	H	F	F	OH
	XXIII-19-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	F	OH
	XXIII-19-8	p-Br—Ph	*	H	*	Et	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

15

TABLE XXIII-20

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	
20	XXIII-20-1	p-I—Ph	H	H	H	Et	H	F	F	OH
	XXIII-20-2	p-I—Ph	H	H	CH ₃	Et	H	F	F	OH
	XXIII-20-3	p-I—Ph	H	H	CH(CH ₃) ₂	Et	H	F	F	OH
	XXIII-20-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	F	OH
	XXIII-20-5	p-I—Ph	H	H	CH ₂ Ph	Et	H	F	F	OH
	XXIII-20-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	Et	H	F	F	OH
25	XXIII-20-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	F	OH
	XXIII-20-8	p-I—Ph	*	H	*	Et	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

30

TABLE XXIII-21

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	
35	XXIII-21-1	CH ₃	H	H	H	ⁱ Pr	H	F	F	OH
	XXIII-21-2	CH ₃	H	H	CH ₃	ⁱ Pr	H	F	F	OH
	XXIII-21-3	CH ₃	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH
	XXIII-21-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH
	XXIII-21-5	CH ₃	H	H	CH ₂ Ph	ⁱ Pr	H	F	F	OH
	XXIII-21-6	CH ₃	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	F	OH
	XXIII-21-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	F	OH
	XXIII-21-8	CH ₃	*	H	*	ⁱ Pr	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

40

TABLE XXIII-22

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	
45	XXIII-22-1	Et	H	H	H	ⁱ Pr	H	F	F	OH
	XXIII-22-2	Et	H	H	CH ₃	ⁱ Pr	H	F	F	OH
	XXIII-22-3	Et	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH
	XXIII-22-4	Et	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH
	XXIII-22-5	Et	H	H	CH ₂ Ph	ⁱ Pr	H	F	F	OH
	XXIII-22-6	Et	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	F	OH
50	XXIII-22-7	Et	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	F	OH
	XXIII-22-8	Et	*	H	*	ⁱ Pr	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

55

TABLE XXIII-23

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	
60	XXIII-23-1	ⁱ Pr	H	H	H	ⁱ Pr	H	F	F	OH
	XXIII-23-2	ⁱ Pr	H	H	CH ₃	ⁱ Pr	H	F	F	OH
	XXIII-23-3	ⁱ Pr	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH
	XXIII-23-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH
	XXIII-23-5	ⁱ Pr	H	H	CH ₂ Ph	ⁱ Pr	H	F	F	OH
	XXIII-23-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	F	OH
	XXIII-23-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	F	OH
65	XXIII-23-8	ⁱ Pr	*	H	*	ⁱ Pr	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

469

TABLE XXIII-24

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIII-24-1	^t Bu	H	H	H	ⁱ Pr	H	F	F	OH
XXIII-24-2	^t Bu	H	H	CH ₃	ⁱ Pr	H	F	F	OH
XXIII-24-3	^t Bu	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH
XXIII-24-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH
XXIII-24-5	^t Bu	H	H	CH ₂ Ph	ⁱ Pr	H	F	F	OH
XXIII-24-6	^t Bu	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	F	OH
XXIII-24-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	F	OH
XXIII-24-8	^t Bu	*	H	*	ⁱ Pr	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIII-25

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIII-25-1	Ph	H	H	H	ⁱ Pr	H	F	F	OH
XXIII-25-2	Ph	H	H	CH ₃	ⁱ Pr	H	F	F	OH
XXIII-25-3	Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH
XXIII-25-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH
XXIII-25-5	Ph	H	H	CH ₂ Ph	ⁱ Pr	H	F	F	OH
XXIII-25-6	Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	F	OH
XXIII-25-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	F	OH
XXIII-25-8	Ph	*	H	*	ⁱ Pr	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIII-26

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIII-26-1	p-Me—Ph	H	H	H	ⁱ Pr	H	F	F	OH
XXIII-26-2	p-Me—Ph	H	H	CH ₃	ⁱ Pr	H	F	F	OH
XXIII-26-3	p-Me—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH
XXIII-26-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH
XXIII-26-5	p-Me—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	F	F	OH
XXIII-26-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	F	OH
XXIII-26-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	F	OH
XXIII-26-8	p-Me—Ph	*	H	*	ⁱ Pr	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIII-27

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIII-27-1	p-F—Ph	H	H	H	ⁱ Pr	H	F	F	OH
XXIII-27-2	p-F—Ph	H	H	CH ₃	ⁱ Pr	H	F	F	OH
XXIII-27-3	p-F—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH
XXIII-27-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH
XXIII-27-5	p-F—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	F	F	OH
XXIII-27-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	F	OH
XXIII-27-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	F	OH
XXIII-27-8	p-F—Ph	*	H	*	ⁱ Pr	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

470

TABLE XXIII-28

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
5 XXIII-28-1	p-Cl—Ph	H	H	H	ⁱ Pr	H	F	F	OH
XXIII-28-2	p-Cl—Ph	H	H	CH ₃	ⁱ Pr	H	F	F	OH
XXIII-28-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH
10 XXIII-28-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH
XXIII-28-5	p-Cl—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	F	F	OH
XXIII-28-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	F	OH
15 XXIII-28-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	F	OH
XXIII-28-8	p-Cl—Ph	*	H	*	ⁱ Pr	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIII-29

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
25 XXIII-29-1	p-Br—Ph	H	H	H	ⁱ Pr	H	F	F	OH
XXIII-29-2	p-Br—Ph	H	H	CH ₃	ⁱ Pr	H	F	F	OH
30 XXIII-29-3	p-Br—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH
XXIII-29-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH
XXIII-29-5	p-Br—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	F	F	OH
35 XXIII-29-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	F	OH
XXIII-29-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	F	OH
XXIII-29-8	p-Br—Ph	*	H	*	ⁱ Pr	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIII-30

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
45 XXIII-30-1	p-I—Ph	H	H	H	ⁱ Pr	H	F	F	OH
XXIII-30-2	p-I—Ph	H	H	CH ₃	ⁱ Pr	H	F	F	OH
XXIII-30-3	p-I—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH
XXIII-30-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH
XXIII-30-5	p-I—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	F	F	OH
50 XXIII-30-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	F	OH
XXIII-30-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	F	OH
XXIII-30-8	p-I—Ph	*	H	*	ⁱ Pr	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIII-31

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIII-31-1	CH ₃	H	H	H	ⁿ Bu	H	F	F	OH
60 XXIII-31-2	CH ₃	H	H	CH ₃	ⁿ Bu	H	F	F	OH
XXIII-31-3	CH ₃	H	H	CH(CH ₃) ₂	ⁿ Bu	H	F	F	OH
XXIII-31-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	F	F	OH
65 XXIII-31-5	CH ₃	H	H	CH ₂ Ph	ⁿ Bu	H	F	F	OH

471

TABLE XXIII-31-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIII-31-6	CH ₃	H	H	CH ₂ -indol-3-yl	^t Bu	H	F	F	OH
XXIII-31-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	^t Bu	H	F	F	OH
XXIII-31-8	CH ₃	*	H	*	^t Bu	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIII-32

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIII-32-1	Et	H	H	H	^t Bu	H	F	F	OH
XXIII-32-2	Et	H	H	CH ₃	^t Bu	H	F	F	OH
XXIII-32-3	Et	H	H	CH(CH ₃) ₂	^t Bu	H	F	F	OH
XXIII-32-4	Et	H	H	CH ₂ CH(CH ₃) ₂	^t Bu	H	F	F	OH
XXIII-32-5	Et	H	H	CH ₂ Ph	^t Bu	H	F	F	OH
XXIII-32-6	Et	H	H	CH ₂ -indol-3-yl	^t Bu	H	F	F	OH
XXIII-32-7	Et	H	H	CH ₂ CH ₂ SCH ₃	^t Bu	H	F	F	OH
XXIII-32-8	Et	*	H	*	^t Bu	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIII-33

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIII-33-1	ⁱ Pr	H	H	H	^t Bu	H	F	F	OH
XXIII-33-2	ⁱ Pr	H	H	CH ₃	^t Bu	H	F	F	OH
XXIII-33-3	ⁱ Pr	H	H	CH(CH ₃) ₂	^t Bu	H	F	F	OH
XXIII-33-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	^t Bu	H	F	F	OH
XXIII-33-5	ⁱ Pr	H	H	CH ₂ Ph	^t Bu	H	F	F	OH
XXIII-33-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	^t Bu	H	F	F	OH
XXIII-33-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	^t Bu	H	F	F	OH
XXIII-33-8	ⁱ Pr	*	H	*	^t Bu	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIII-34

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIII-34-1	^t Bu	H	H	H	^t Bu	H	F	F	OH
XXIII-34-2	^t Bu	H	H	CH ₃	^t Bu	H	F	F	OH
XXIII-34-3	^t Bu	H	H	CH(CH ₃) ₂	^t Bu	H	F	F	OH
XXIII-34-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	^t Bu	H	F	F	OH
XXIII-34-5	^t Bu	H	H	CH ₂ Ph	^t Bu	H	F	F	OH
XXIII-34-6	^t Bu	H	H	CH ₂ -indol-3-yl	^t Bu	H	F	F	OH
XXIII-34-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	^t Bu	H	F	F	OH
XXIII-34-8	^t Bu	*	H	*	^t Bu	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIII-35

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIII-35-1	Ph	H	H	H	^t Bu	H	F	F	OH
XXIII-35-2	Ph	H	H	CH ₃	^t Bu	H	F	F	OH
XXIII-35-3	Ph	H	H	CH(CH ₃) ₂	^t Bu	H	F	F	OH
XXIII-35-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	^t Bu	H	F	F	OH
XXIII-35-5	Ph	H	H	CH ₂ Ph	^t Bu	H	F	F	OH
XXIII-35-6	Ph	H	H	CH ₂ -indol-3-yl	^t Bu	H	F	F	OH
XXIII-35-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	^t Bu	H	F	F	OH
XXIII-35-8	Ph	*	H	*	^t Bu	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

472

TABLE XXIII-36

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIII-36-1	p-Me-Ph	H	H	H	^t Bu	H	F	F	OH
XXIII-36-2	p-Me-Ph	H	H	CH ₃	^t Bu	H	F	F	OH
XXIII-36-3	p-Me-Ph	H	H	CH(CH ₃) ₂	^t Bu	H	F	F	OH
XXIII-36-4	p-Me-Ph	H	H	CH ₂ CH(CH ₃) ₂	^t Bu	H	F	F	OH
XXIII-36-5	p-Me-Ph	H	H	CH ₂ Ph	^t Bu	H	F	F	OH
XXIII-36-6	p-Me-Ph	H	H	CH ₂ -indol-3-yl	^t Bu	H	F	F	OH
XXIII-36-7	p-Me-Ph	H	H	CH ₂ CH ₂ SCH ₃	^t Bu	H	F	F	OH
XXIII-36-8	p-Me-Ph	*	H	*	^t Bu	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIII-37

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIII-37-1	p-F-Ph	H	H	H	^t Bu	H	F	F	OH
XXIII-37-2	p-F-Ph	H	H	CH ₃	^t Bu	H	F	F	OH
XXIII-37-3	p-F-Ph	H	H	CH(CH ₃) ₂	^t Bu	H	F	F	OH
XXIII-37-4	p-F-Ph	H	H	CH ₂ CH(CH ₃) ₂	^t Bu	H	F	F	OH
XXIII-37-5	p-F-Ph	H	H	CH ₂ Ph	^t Bu	H	F	F	OH
XXIII-37-6	p-F-Ph	H	H	CH ₂ -indol-3-yl	^t Bu	H	F	F	OH
XXIII-37-7	p-F-Ph	H	H	CH ₂ CH ₂ SCH ₃	^t Bu	H	F	F	OH
XXIII-37-8	p-F-Ph	*	H	*	^t Bu	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIII-38

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIII-38-1	p-Cl-Ph	H	H	H	^t Bu	H	F	F	OH
XXIII-38-2	p-Cl-Ph	H	H	CH ₃	^t Bu	H	F	F	OH
XXIII-38-3	p-Cl-Ph	H	H	CH(CH ₃) ₂	^t Bu	H	F	F	OH
XXIII-38-4	p-Cl-Ph	H	H	CH ₂ CH(CH ₃) ₂	^t Bu	H	F	F	OH
XXIII-38-5	p-Cl-Ph	H	H	CH ₂ Ph	^t Bu	H	F	F	OH
XXIII-38-6	p-Cl-Ph	H	H	CH ₂ -indol-3-yl	^t Bu	H	F	F	OH
XXIII-38-7	p-Cl-Ph	H	H	CH ₂ CH ₂ SCH ₃	^t Bu	H	F	F	OH
XXIII-38-8	p-Cl-Ph	*	H	*	^t Bu	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIII-39

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIII-39-1	p-Br-Ph	H	H	H	^t Bu	H	F	F	OH
XXIII-39-2	p-Br-Ph	H	H	CH ₃	^t Bu	H	F	F	OH
XXIII-39-3	p-Br-Ph	H	H	CH(CH ₃) ₂	^t Bu	H	F	F	OH
XXIII-39-4	p-Br-Ph	H	H	CH ₂ CH(CH ₃) ₂	^t Bu	H	F	F	OH
XXIII-39-5	p-Br-Ph	H	H	CH ₂ Ph	^t Bu	H	F	F	OH
XXIII-39-6	p-Br-Ph	H	H	CH ₂ -indol-3-yl	^t Bu	H	F	F	OH
XXIII-39-7	p-Br-Ph	H	H	CH ₂ CH ₂ SCH ₃	^t Bu	H	F	F	OH
XXIII-39-8	p-Br-Ph	*	H	*	^t Bu	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIII-40

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIII-40-1	p-I-Ph	H	H	H	^t Bu	H	F	F	OH
XXIII-40-2	p-I-Ph	H	H	CH ₃	^t Bu	H	F	F	OH
XXIII-40-3	p-I-Ph	H	H	CH(CH ₃) ₂	^t Bu	H	F	F	OH
XXIII-40-4	p-I-Ph	H	H	CH ₂ CH(CH ₃) ₂	^t Bu	H	F	F	OH
XXIII-40-5	p-I-Ph	H	H	CH ₂ Ph	^t Bu	H	F	F	OH

473

TABLE XXIII-40-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIII-40-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	ⁿ Bu	H	F	F	OH
XXIII-40-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	H	F	F	OH
XXIII-40-8	p-I—Ph	*	H	*	ⁿ Bu	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIII-41

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIII-41-1	CH ₃	H	H	H	Bz	H	F	F	OH
XXIII-41-2	CH ₃	H	H	CH ₃	Bz	H	F	F	OH
XXIII-41-3	CH ₃	H	H	CH(CH ₃) ₂	Bz	H	F	F	OH
XXIII-41-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	F	OH
XXIII-41-5	CH ₃	H	H	CH ₂ Ph	Bz	H	F	F	OH
XXIII-41-6	CH ₃	H	H	CH ₂ -indol-3-yl	Bz	H	F	F	OH
XXIII-41-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	F	OH
XXIII-41-8	CH ₃	*	H	*	Bz	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIII-42

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIII-42-1	Et	H	H	H	Bz	H	F	F	OH
XXIII-42-2	Et	H	H	CH ₃	Bz	H	F	F	OH
XXIII-42-3	Et	H	H	CH(CH ₃) ₂	Bz	H	F	F	OH
XXIII-42-4	Et	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	F	OH
XXIII-42-5	Et	H	H	CH ₂ Ph	Bz	H	F	F	OH
XXIII-42-6	Et	H	H	CH ₂ -indol-3-yl	Bz	H	F	F	OH
XXIII-42-7	Et	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	F	OH
XXIII-42-8	Et	*	H	*	Bz	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIII-43

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIII-43-1	ⁱ Pr	H	H	H	Bz	H	F	F	OH
XXIII-43-2	ⁱ Pr	H	H	CH ₃	Bz	H	F	F	OH
XXIII-43-3	ⁱ Pr	H	H	CH(CH ₃) ₂	Bz	H	F	F	OH
XXIII-43-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	F	OH
XXIII-43-5	ⁱ Pr	H	H	CH ₂ Ph	Bz	H	F	F	OH
XXIII-43-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	Bz	H	F	F	OH
XXIII-43-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	F	OH
XXIII-43-8	ⁱ Pr	*	H	*	Bz	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIII-44

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIII-44-1	^t Bu	H	H	H	Bz	H	F	F	OH
XXIII-44-2	^t Bu	H	H	CH ₃	Bz	H	F	F	OH
XXIII-44-3	^t Bu	H	H	CH(CH ₃) ₂	Bz	H	F	F	OH
XXIII-44-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	F	OH
XXIII-44-5	^t Bu	H	H	CH ₂ Ph	Bz	H	F	F	OH
XXIII-44-6	^t Bu	H	H	CH ₂ -indol-3-yl	Bz	H	F	F	OH
XXIII-44-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	F	OH
XXIII-44-8	^t Bu	*	H	*	Bz	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

474

TABLE XXIII-45

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	
5	XXIII-45-1	Ph	H	H	H	Bz	H	F	F	OH
	XXIII-45-2	Ph	H	H	CH ₃	Bz	H	F	F	OH
	XXIII-45-3	Ph	H	H	CH(CH ₃) ₂	Bz	H	F	F	OH
	XXIII-45-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	F	OH
	XXIII-45-5	Ph	H	H	CH ₂ Ph	Bz	H	F	F	OH
10	XXIII-45-6	Ph	H	H	CH ₂ -indol-3-yl	Bz	H	F	F	OH
	XXIII-45-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	F	OH
	XXIII-45-8	Ph	*	H	*	Bz	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIII-46

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	
20	XXIII-46-1	p-Me—Ph	H	H	H	Bz	H	F	F	OH
	XXIII-46-2	p-Me—Ph	H	H	CH ₃	Bz	H	F	F	OH
	XXIII-46-3	p-Me—Ph	H	H	CH(CH ₃) ₂	Bz	H	F	F	OH
	XXIII-46-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	F	OH
	XXIII-46-5	p-Me—Ph	H	H	CH ₂ Ph	Bz	H	F	F	OH
	XXIII-46-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	F	F	OH
25	XXIII-46-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	F	OH
	XXIII-46-8	p-Me—Ph	*	H	*	Bz	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIII-47

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	
30	XXIII-47-1	p-F—Ph	H	H	H	Bz	H	F	F	OH
	XXIII-47-2	p-F—Ph	H	H	CH ₃	Bz	H	F	F	OH
	XXIII-47-3	p-F—Ph	H	H	CH(CH ₃) ₂	Bz	H	F	F	OH
35	XXIII-47-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	F	OH
	XXIII-47-5	p-F—Ph	H	H	CH ₂ Ph	Bz	H	F	F	OH
	XXIII-47-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	F	F	OH
	XXIII-47-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	F	OH
	XXIII-47-8	p-F—Ph	*	H	*	Bz	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIII-48

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	
45	XXIII-48-1	p-Cl—Ph	H	H	H	Bz	H	F	F	OH
	XXIII-48-2	p-Cl—Ph	H	H	CH ₃	Bz	H	F	F	OH
	XXIII-48-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	Bz	H	F	F	OH
	XXIII-48-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	F	OH
	XXIII-48-5	p-Cl—Ph	H	H	CH ₂ Ph	Bz	H	F	F	OH
50	XXIII-48-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	F	F	OH
	XXIII-48-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	F	OH
	XXIII-48-8	p-Cl—Ph	*	H	*	Bz	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIII-49

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	
60	XXIII-49-1	p-Br—Ph	H	H	H	Bz	H	F	F	OH
	XXIII-49-2	p-Br—Ph	H	H	CH ₃	Bz	H	F	F	OH
	XXIII-49-3	p-Br—Ph	H	H	CH(CH ₃) ₂	Bz	H	F	F	OH
	XXIII-49-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	F	OH
	XXIII-49-5	p-Br—Ph	H	H	CH ₂ Ph	Bz	H	F	F	OH
	XXIII-49-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	F	F	OH
	XXIII-49-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	F	OH
65	XXIII-49-8	p-Br—Ph	*	H	*	Bz	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

475

TABLE XXIII-50

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIII-50-1	p-I—Ph	H	H	H	Bz	H	F	F	OH
XXIII-50-2	p-I—Ph	H	H	CH ₃	Bz	H	F	F	OH
XXIII-50-3	p-I—Ph	H	H	CH(CH ₃) ₂	Bz	H	F	F	OH
XXIII-50-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	F	OH
XXIII-50-5	p-I—Ph	H	H	CH ₂ Ph	Bz	H	F	F	OH
XXIII-50-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	F	F	OH
XXIII-50-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	F	OH
XXIII-50-8	p-I—Ph	*	H	*	Bz	H	F	F	OH

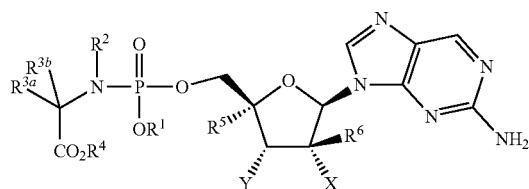
*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIV-1

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIV-1-1	CH ₃	H	H	H	CH ₃	H	H	F	OH
XXIV-1-2	CH ₃	H	H	CH ₃	CH ₃	H	H	F	OH
XXIV-1-3	CH ₃	H	H	CH(CH ₃) ₂	CH ₃	H	H	F	OH
XXIV-1-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	H	F	OH
XXIV-1-5	CH ₃	H	H	CH ₂ Ph	CH ₃	H	H	F	OH
XXIV-1-6	CH ₃	H	H	CH ₂ -indol-3-yl	CH ₃	H	H	F	OH
XXIV-1-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	H	F	OH
XXIV-1-8	CH ₃	*	H	*	CH ₃	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIV-2

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIV-2-1	Et	H	H	H	CH ₃	H	H	F	OH
XXIV-2-2	Et	H	H	CH ₃	CH ₃	H	H	F	OH
XXIV-2-3	Et	H	H	CH(CH ₃) ₂	CH ₃	H	H	F	OH
XXIV-2-4	Et	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	H	F	OH
XXIV-2-5	Et	H	H	CH ₂ Ph	CH ₃	H	H	F	OH
XXIV-2-6	Et	H	H	CH ₂ -indol-3-yl	CH ₃	H	H	F	OH

476

TABLE XXIV-2-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIV-2-7	Et	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	H	F	OH
XXIV-2-8	Et	*	H	*	CH ₃	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIV-3

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIV-3-1	ⁱ Pr	H	H	H	CH ₃	H	H	F	OH
XXIV-3-2	ⁱ Pr	H	H	CH ₃	CH ₃	H	H	F	OH
XXIV-3-3	ⁱ Pr	H	H	CH(CH ₃) ₂	CH ₃	H	H	F	OH
XXIV-3-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	H	F	OH
XXIV-3-5	ⁱ Pr	H	H	CH ₂ Ph	CH ₃	H	H	F	OH
XXIV-3-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	CH ₃	H	H	F	OH
XXIV-3-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	H	F	OH
XXIV-3-8	ⁱ Pr	*	H	*	CH ₃	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIV-4

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIV-4-1	^t Bu	H	H	H	CH ₃	H	H	F	OH
XXIV-4-2	^t Bu	H	H	CH ₃	CH ₃	H	H	F	OH
XXIV-4-3	^t Bu	H	H	CH(CH ₃) ₂	CH ₃	H	H	F	OH
XXIV-4-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	H	F	OH
XXIV-4-5	^t Bu	H	H	CH ₂ Ph	CH ₃	H	H	F	OH
XXIV-4-6	^t Bu	H	H	CH ₂ -indol-3-yl	CH ₃	H	H	F	OH
XXIV-4-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	H	F	OH
XXIV-4-8	^t Bu	*	H	*	CH ₃	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIV-5

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIV-5-1	Ph	H	H	H	CH ₃	H	H	F	OH
XXIV-5-2	Ph	H	H	CH ₃	CH ₃	H	H	F	OH
XXIV-5-3	Ph	H	H	CH(CH ₃) ₂	CH ₃	H	H	F	OH
XXIV-5-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	H	F	OH
XXIV-5-5	Ph	H	H	CH ₂ Ph	CH ₃	H	H	F	OH
XXIV-5-6	Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	H	F	OH
XXIV-5-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	H	F	OH
XXIV-5-8	Ph	*	H	*	CH ₃	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIV-6

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIV-6-1	p-Me—Ph	H	H	H	CH ₃	H	H	F	OH
XXIV-6-2	p-Me—Ph	H	H	CH ₃	CH ₃	H	H	F	OH
XXIV-6-3	p-Me—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	H	F	OH
XXIV-6-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	H	F	OH
XXIV-6-5	p-Me—Ph	H	H	CH ₂ Ph	CH ₃	H	H	F	OH
XXIV-6-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	H	F	OH
XXIV-6-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	H	F	OH
XXIV-6-8	p-Me—Ph	*	H	*	CH ₃	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIV-7

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIV-7-1	p-F—Ph	H	H	H	CH ₃	H	H	F	OH
XXIV-7-2	p-F—Ph	H	H	CH ₃	CH ₃	H	H	F	OH

TABLE XXIV-7-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIV-7-3	p-F—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	H	F	OH
XXIV-7-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	H	F	OH
XXIV-7-6	p-F—Ph	H	H	CH ₂ Ph	CH ₃	H	H	F	OH
XXIV-7-7	p-F—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	H	F	OH
XXIV-7-8	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	H	F	OH
XXIV-7-20	p-F—Ph	*	H	*	CH ₃	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIV-8

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIV-8-1	p-Cl—Ph	H	H	H	CH ₃	H	H	F	OH
XXIV-8-2	p-Cl—Ph	H	H	CH ₃	CH ₃	H	H	F	OH
XXIV-8-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	H	F	OH
XXIV-8-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	H	F	OH
XXIV-8-5	p-Cl—Ph	H	H	CH ₂ Ph	CH ₃	H	H	F	OH
XXIV-8-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	H	F	OH
XXIV-8-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	H	F	OH
XXIV-8-8	p-Cl—Ph	*	H	*	CH ₃	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIV-9

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIV-9-1	p-Br—Ph	H	H	H	CH ₃	H	H	F	OH
XXIV-9-2	p-Br—Ph	H	H	CH ₃	CH ₃	H	H	F	OH
XXIV-9-3	p-Br—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	H	F	OH
XXIV-9-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	H	F	OH
XXIV-9-6	p-Br—Ph	H	H	CH ₂ Ph	CH ₃	H	H	F	OH
XXIV-9-7	p-Br—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	H	F	OH
XXIV-9-8	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	H	F	OH
XXIV-9-20	p-Br—Ph	*	H	*	CH ₃	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIV-10

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIV-10-1	p-I—Ph	H	H	H	CH ₃	H	H	F	OH
XXIV-10-2	p-I—Ph	H	H	CH ₃	CH ₃	H	H	F	OH
XXIV-10-3	p-I—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	H	F	OH
XXIV-10-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	H	F	OH
XXIV-10-5	p-I—Ph	H	H	CH ₂ Ph	CH ₃	H	H	F	OH
XXIV-10-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	H	F	OH
XXIV-10-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	H	F	OH
XXIV-10-8	p-I—Ph	*	H	*	CH ₃	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

50

TABLE XXIV-11

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIV-11-1	CH ₃	H	H	H	Et	H	H	F	OH
XXIV-11-2	CH ₃	H	H	CH ₃	Et	H	H	F	OH
XXIV-11-3	CH ₃	H	H	CH(CH ₃) ₂	Et	H	H	F	OH
XXIV-11-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	Et	H	H	F	OH
XXIV-11-5	CH ₃	H	H	CH ₂ Ph	Et	H	H	F	OH
XXIV-11-6	CH ₃	H	H	CH ₂ -indol-3-yl	Et	H	H	F	OH
XXIV-11-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	Et	H	H	F	OH
XXIV-11-8	CH ₃	*	H	*	Et	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIV-12

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIV-12-1	Et	H	H	H	Et	H	H	F	OH
XXIV-12-2	Et	H	H	CH ₃	Et	H	H	F	OH
XXIV-12-3	Et	H	H	CH(CH ₃) ₂	Et	H	H	F	OH
XXIV-12-4	Et	H	H	CH ₂ CH(CH ₃) ₂	Et	H	H	F	OH
XXIV-12-5	Et	H	H	CH ₂ Ph	Et	H	H	F	OH
XXIV-12-6	Et	H	H	CH ₂ -indol-3-yl	Et	H	H	F	OH
XXIV-12-7	Et	H	H	CH ₂ CH ₂ SCH ₃	Et	H	H	F	OH
XXIV-12-8	Et	*	H	*	Et	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

479

TABLE XXIV-13

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIV-13-1	ⁱ Pr	H	H	H	Et	H	H	F	OH
XXIV-13-2	ⁱ Pr	H	H	CH ₃	Et	H	H	F	OH
XXIV-13-3	ⁱ Pr	H	H	CH(CH ₃) ₂	Et	H	H	F	OH
XXIV-13-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	Et	H	H	F	OH
XXIV-13-5	ⁱ Pr	H	H	CH ₂ Ph	Et	H	H	F	OH
XXIV-13-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	Et	H	H	F	OH
XXIV-13-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	Et	H	H	F	OH
XXIV-13-8	ⁱ Pr	*	H	*	Et	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIV-14

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIV-14-1	^t Bu	H	H	H	Et	H	H	F	OH
XXIV-14-2	^t Bu	H	H	CH ₃	Et	H	H	F	OH
XXIV-14-3	^t Bu	H	H	CH(CH ₃) ₂	Et	H	H	F	OH
XXIV-14-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	Et	H	H	F	OH
XXIV-14-5	^t Bu	H	H	CH ₂ Ph	Et	H	H	F	OH
XXIV-14-6	^t Bu	H	H	CH ₂ -indol-3-yl	Et	H	H	F	OH
XXIV-14-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	Et	H	H	F	OH
XXIV-14-8	^t Bu	*	H	*	Et	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIV-15

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIV-15-1	Ph	H	H	H	Et	H	H	F	OH
XXIV-15-2	Ph	H	H	CH ₃	Et	H	H	F	OH
XXIV-15-3	Ph	H	H	CH(CH ₃) ₂	Et	H	H	F	OH
XXIV-15-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	H	F	OH
XXIV-15-5	Ph	H	H	CH ₂ Ph	Et	H	H	F	OH
XXIV-15-6	Ph	H	H	CH ₂ -indol-3-yl	Et	H	H	F	OH
XXIV-15-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	H	F	OH
XXIV-15-8	Ph	*	H	*	Et	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIV-16

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIV-16-1	p-Me—Ph	H	H	H	Et	H	H	F	OH
XXIV-16-2	p-Me—Ph	H	H	CH ₃	Et	H	H	F	OH
XXIV-16-3	p-Me—Ph	H	H	CH(CH ₃) ₂	Et	H	H	F	OH
XXIV-16-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	H	F	OH
XXIV-16-5	p-Me—Ph	H	H	CH ₂ Ph	Et	H	H	F	OH
XXIV-16-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	Et	H	H	F	OH
XXIV-16-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	H	F	OH
XXIV-16-8	p-Me—Ph	*	H	*	Et	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIV-17

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIV-17-1	p-F—Ph	H	H	H	Et	H	H	F	OH
XXIV-17-2	p-F—Ph	H	H	CH ₃	Et	H	H	F	OH
XXIV-17-3	p-F—Ph	H	H	CH(CH ₃) ₂	Et	H	H	F	OH
XXIV-17-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	H	F	OH
XXIV-17-5	p-F—Ph	H	H	CH ₂ Ph	Et	H	H	F	OH
XXIV-17-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	Et	H	H	F	OH
XXIV-17-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	H	F	OH
XXIV-17-8	p-F—Ph	*	H	*	Et	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

480

TABLE XXIV-18

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIV-18-1	p-Cl—Ph	H	H	H	Et	H	H	F	OH
XXIV-18-2	p-Cl—Ph	H	H	CH ₃	Et	H	H	F	OH
XXIV-18-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	Et	H	H	F	OH
XXIV-18-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	H	F	OH
XXIV-18-5	p-Cl—Ph	H	H	CH ₂ Ph	Et	H	H	F	OH
XXIV-18-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	Et	H	H	F	OH
XXIV-18-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	H	F	OH
XXIV-18-8	p-Cl—Ph	*	H	*	Et	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIV-19

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIV-19-1	p-Br—Ph	H	H	H	Et	H	H	F	OH
XXIV-19-2	p-Br—Ph	H	H	CH ₃	Et	H	H	F	OH
XXIV-19-3	p-Br—Ph	H	H	CH(CH ₃) ₂	Et	H	H	F	OH
XXIV-19-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	H	F	OH
XXIV-19-5	p-Br—Ph	H	H	CH ₂ Ph	Et	H	H	F	OH
XXIV-19-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	Et	H	H	F	OH
XXIV-19-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	H	F	OH
XXIV-19-8	p-Br—Ph	*	H	*	Et	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIV-20

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIV-20-1	p-I—Ph	H	H	H	Et	H	H	F	OH
XXIV-20-2	p-I—Ph	H	H	CH ₃	Et	H	H	F	OH
XXIV-20-3	p-I—Ph	H	H	CH(CH ₃) ₂	Et	H	H	F	OH
XXIV-20-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	H	F	OH
XXIV-20-5	p-I—Ph	H	H	CH ₂ Ph	Et	H	H	F	OH
XXIV-20-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	Et	H	H	F	OH
XXIV-20-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	H	F	OH
XXIV-20-8	p-I—Ph	*	H	*	Et	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

481

TABLE XXIV-21

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIV-21-1	CH ₃	H	H	H	ⁱ Pr	H	H	F	OH
XXIV-21-2	CH ₃	H	H	CH ₃	ⁱ Pr	H	H	F	OH
XXIV-21-3	CH ₃	H	H	CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH
XXIV-21-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH
XXIV-21-5	CH ₃	H	H	CH ₂ Ph	ⁱ Pr	H	H	F	OH
XXIV-21-6	CH ₃	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	H	F	OH
XXIV-21-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	H	F	OH
XXIV-21-8	CH ₃	*	H	*	ⁱ Pr	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIV-22

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIV-22-1	Et	H	H	H	ⁱ Pr	H	H	F	OH
XXIV-22-2	Et	H	H	CH ₃	ⁱ Pr	H	H	F	OH
XXIV-22-3	Et	H	H	CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH
XXIV-22-4	Et	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH
XXIV-22-5	Et	H	H	CH ₂ Ph	ⁱ Pr	H	H	F	OH
XXIV-22-6	Et	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	H	F	OH
XXIV-22-7	Et	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	H	F	OH
XXIV-22-8	Et	*	H	*	ⁱ Pr	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIV-23

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIV-23-1	ⁱ Pr	H	H	H	ⁱ Pr	H	H	F	OH
XXIV-23-2	ⁱ Pr	H	H	CH ₃	ⁱ Pr	H	H	F	OH
XXIV-23-3	ⁱ Pr	H	H	CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH
XXIV-23-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH
XXIV-23-5	ⁱ Pr	H	H	CH ₂ Ph	ⁱ Pr	H	H	F	OH
XXIV-23-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	H	F	OH
XXIV-23-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	H	F	OH
XXIV-23-8	ⁱ Pr	*	H	*	ⁱ Pr	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIV-24

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIV-24-1	^t Bu	H	H	H	ⁱ Pr	H	H	F	OH
XXIV-24-2	^t Bu	H	H	CH ₃	ⁱ Pr	H	H	F	OH
XXIV-24-3	^t Bu	H	H	CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH
XXIV-24-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH
XXIV-24-5	^t Bu	H	H	CH ₂ Ph	ⁱ Pr	H	H	F	OH
XXIV-24-6	^t Bu	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	H	F	OH
XXIV-24-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	H	F	OH
XXIV-24-8	^t Bu	*	H	*	ⁱ Pr	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIV-25

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIV-25-1	Ph	H	H	H	ⁱ Pr	H	H	F	OH
XXIV-25-2	Ph	H	H	CH ₃	ⁱ Pr	H	H	F	OH
XXIV-25-3	Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH
XXIV-25-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH
XXIV-25-5	Ph	H	H	CH ₂ Ph	ⁱ Pr	H	H	F	OH
XXIV-25-6	Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	H	F	OH
XXIV-25-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	H	F	OH
XXIV-25-8	Ph	*	H	*	ⁱ Pr	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

482

TABLE XXIV-26

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
5 XXIV-26-1	p-Me-Ph	H	H	H	ⁱ Pr	H	H	F	OH
XXIV-26-2	p-Me-Ph	H	H	CH ₃	ⁱ Pr	H	H	F	OH
XXIV-26-3	p-Me-Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH
10 XXIV-26-4	p-Me-Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH
XXIV-26-5	p-Me-Ph	H	H	CH ₂ Ph	ⁱ Pr	H	H	F	OH
XXIV-26-6	p-Me-Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	H	F	OH
15 XXIV-26-7	p-Me-Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	H	F	OH
XXIV-26-8	p-Me-Ph	*	H	*	ⁱ Pr	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIV-27

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
25 XXIV-27-1	p-F-Ph	H	H	H	ⁱ Pr	H	H	F	OH
XXIV-27-2	p-F-Ph	H	H	CH ₃	ⁱ Pr	H	H	F	OH
XXIV-27-3	p-F-Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH
XXIV-27-4	p-F-Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH
30 XXIV-27-5	p-F-Ph	H	H	CH ₂ Ph	ⁱ Pr	H	H	F	OH
XXIV-27-6	p-F-Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	H	F	OH
XXIV-27-7	p-F-Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	H	F	OH
XXIV-27-8	p-F-Ph	*	H	*	ⁱ Pr	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIV-28

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
40 XXIV-28-1	p-Cl-Ph	H	H	H	ⁱ Pr	H	H	F	OH
XXIV-28-2	p-Cl-Ph	H	H	CH ₃	ⁱ Pr	H	H	F	OH
XXIV-28-3	p-Cl-Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH
45 XXIV-28-4	p-Cl-Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH
XXIV-28-5	p-Cl-Ph	H	H	CH ₂ Ph	ⁱ Pr	H	H	F	OH
XXIV-28-6	p-Cl-Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	H	F	OH
XXIV-28-7	p-Cl-Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	H	F	OH
50 XXIV-28-8	p-Cl-Ph	*	H	*	ⁱ Pr	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIV-29

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
60 XXIV-29-1	p-Br-Ph	H	H	H	ⁱ Pr	H	H	F	OH
XXIV-29-2	p-Br-Ph	H	H	CH ₃	ⁱ Pr	H	H	F	OH
XXIV-29-3	p-Br-Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH
XXIV-29-4	p-Br-Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH
65 XXIV-29-5	p-Br-Ph	H	H	CH ₂ Ph	ⁱ Pr	H	H	F	OH

483

TABLE XXIV-29-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIV-29-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	H	F	OH
XXIV-29-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	H	F	OH
XXIV-29-8	p-Br—Ph	*	H	*	ⁱ Pr	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIV-30

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIV-30-1	p-I—Ph	H	H	H	ⁱ Pr	H	H	F	OH
XXIV-30-2	p-I—Ph	H	H	CH ₃	ⁱ Pr	H	H	F	OH
XXIV-30-3	p-I—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH
XXIV-30-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH
XXIV-30-5	p-I—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	H	F	OH
XXIV-30-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	H	F	OH
XXIV-30-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	H	F	OH
XXIV-30-8	p-I—Ph	*	H	*	ⁱ Pr	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIV-31

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIV-31-1	CH ₃	H	H	H	"Bu	H	H	F	OH
XXIV-31-2	CH ₃	H	H	CH ₃	"Bu	H	H	F	OH
XXIV-31-3	CH ₃	H	H	CH(CH ₃) ₂	"Bu	H	H	F	OH
XXIV-31-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	H	F	OH
XXIV-31-5	CH ₃	H	H	CH ₂ Ph	"Bu	H	H	F	OH
XXIV-31-6	CH ₃	H	H	CH ₂ -indol-3-yl	"Bu	H	H	F	OH
XXIV-31-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	H	F	OH
XXIV-31-8	CH ₃	*	H	*	"Bu	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIV-32

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIV-32-1	Et	H	H	H	"Bu	H	H	F	OH
XXIV-32-2	Et	H	H	CH ₃	"Bu	H	H	F	OH
XXIV-32-3	Et	H	H	CH(CH ₃) ₂	"Bu	H	H	F	OH
XXIV-32-4	Et	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	H	F	OH

484

TABLE XXIV-32-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIV-32-5	Et	H	H	CH ₂ Ph	"Bu	H	H	F	OH
XXIV-32-6	Et	H	H	CH ₂ -indol-3-yl	"Bu	H	H	F	OH
XXIV-32-7	Et	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	H	F	OH
XXIV-32-8	Et	*	H	*	"Bu	H	H	F	OH

*R² and Rib joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIV-33

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIV-33-1	ⁱ Pr	H	H	H	"Bu	H	H	F	OH
XXIV-33-2	ⁱ Pr	H	H	CH ₃	"Bu	H	H	F	OH
XXIV-33-3	ⁱ Pr	H	H	CH(CH ₃) ₂	"Bu	H	H	F	OH
XXIV-33-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	H	F	OH
XXIV-33-5	ⁱ Pr	H	H	CH ₂ Ph	"Bu	H	H	F	OH
XXIV-33-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	"Bu	H	H	F	OH
XXIV-33-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	H	F	OH
XXIV-33-8	ⁱ Pr	*	H	*	"Bu	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIV-34

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIV-34-1	"Bu	H	H	H	"Bu	H	H	F	OH
XXIV-34-2	"Bu	H	H	CH ₃	"Bu	H	H	F	OH
XXIV-34-3	"Bu	H	H	CH(CH ₃) ₂	"Bu	H	H	F	OH
XXIV-34-4	"Bu	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	H	F	OH
XXIV-34-5	"Bu	H	H	CH ₂ Ph	"Bu	H	H	F	OH
XXIV-34-6	"Bu	H	H	CH ₂ -indol-3-yl	"Bu	H	H	F	OH
XXIV-34-7	"Bu	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	H	F	OH
XXIV-34-8	"Bu	*	H	*	"Bu	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIV-35

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIV-35-1	Ph	H	H	H	"Bu	H	H	F	OH
XXIV-35-2	Ph	H	H	CH ₃	"Bu	H	H	F	OH
XXIV-35-3	Ph	H	H	CH(CH ₃) ₂	"Bu	H	H	F	OH
XXIV-35-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	H	F	OH
XXIV-35-5	Ph	H	H	CH ₂ Ph	"Bu	H	H	F	OH
XXIV-35-6	Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	H	F	OH
XXIV-35-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	H	F	OH
XXIV-35-8	Ph	*	H	*	"Bu	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIV-36

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIV-36-1	p-Me—Ph	H	H	H	"Bu	H	H	F	OH
XXIV-36-2	p-Me—Ph	H	H	CH ₃	"Bu	H	H	F	OH
XXIV-36-3	p-Me—Ph	H	H	CH(CH ₃) ₂	"Bu	H	H	F	OH
XXIV-36-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	H	F	OH
XXIV-36-5	p-Me—Ph	H	H	CH ₂ Ph	"Bu	H	H	F	OH
XXIV-36-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	H	F	OH
XXIV-36-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	H	F	OH
XXIV-36-8	p-Me—Ph	*	H	*	"Bu	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

485

TABLE XXIV-37

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIV-37-1	p-F—Ph	H	H	H	"Bu	H	H	F	OH
XXIV-37-2	p-F—Ph	H	H	CH ₃	"Bu	H	H	F	OH
XXIV-37-3	p-F—Ph	H	H	CH(CH ₃) ₂	"Bu	H	H	F	OH
XXIV-37-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	H	F	OH
XXIV-37-5	p-F—Ph	H	H	CH ₂ Ph	"Bu	H	H	F	OH
XXIV-37-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	H	F	OH
XXIV-37-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	H	F	OH
XXIV-37-8	p-F—Ph	*	H	*	"Bu	H	H	F	OH

*R2 and R3b joined together by (CH₂)₃ to form five-membered ring.

486

TABLE XXIV-42

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIV-42-1	Et	H	H	H	Bz	H	H	F	OH
XXIV-42-2	Et	H	H	CH ₃	Bz	H	H	F	OH
XXIV-42-3	Et	H	H	CH(CH ₃) ₂	Bz	H	H	F	OH
XXIV-42-4	Et	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	H	F	OH
XXIV-42-5	Et	H	H	CH ₂ Ph	Bz	H	H	F	OH
XXIV-42-6	Et	H	H	CH ₂ -indol-3-yl	Bz	H	H	F	OH
XXIV-42-7	Et	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	H	F	OH
XXIV-42-8	Et	*	H	*	Bz	H	H	F	OH

*R2 and R3b joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIV-38

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIV-38-1	p-Cl—Ph	H	H	H	"Bu	H	H	F	OH
XXIV-38-2	p-Cl—Ph	H	H	CH ₃	"Bu	H	H	F	OH
XXIV-38-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	"Bu	H	H	F	OH
XXIV-38-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	H	F	OH
XXIV-38-5	p-Cl—Ph	H	H	CH ₂ Ph	"Bu	H	H	F	OH
XXIV-38-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	H	F	OH
XXIV-38-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	H	F	OH
XXIV-38-8	p-Cl—Ph	*	H	*	"Bu	H	H	F	OH

*R2 and Rab joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIV-39

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIV-39-1	p-Br—Ph	H	H	H	"Bu	H	H	F	OH
XXIV-39-2	p-Br—Ph	H	H	CH ₃	"Bu	H	H	F	OH
XXIV-39-3	p-Br—Ph	H	H	CH(CH ₃) ₂	"Bu	H	H	F	OH
XXIV-39-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	H	F	OH
XXIV-39-5	p-Br—Ph	H	H	CH ₂ Ph	"Bu	H	H	F	OH
XXIV-39-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	H	F	OH
XXIV-39-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	H	F	OH
XXIV-39-8	p-Br—Ph	*	H	*	"Bu	H	H	F	OH

*R2 and R3b joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIV-40

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIV-40-1	p-I—Ph	H	H	H	"Bu	H	H	F	OH
XXIV-40-2	p-I—Ph	H	H	CH ₃	"Bu	H	H	F	OH
XXIV-40-3	p-I—Ph	H	H	CH(CH ₃) ₂	"Bu	H	H	F	OH
XXIV-40-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	H	F	OH
XXIV-40-5	p-I—Ph	H	H	CH ₂ Ph	"Bu	H	H	F	OH
XXIV-40-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	H	F	OH
XXIV-40-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	H	F	OH
XXIV-40-8	p-I—Ph	*	H	*	"Bu	H	H	F	OH

*R2 and Rib joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIV-41

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIV-41-1	CH ₃	H	H	H	Bz	H	H	F	OH
XXIV-41-2	CH ₃	H	H	CH ₃	Bz	H	H	F	OH
XXIV-41-3	CH ₃	H	H	CH(CH ₃) ₂	Bz	H	H	F	OH
XXIV-41-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	H	F	OH
XXIV-41-5	CH ₃	H	H	CH ₂ Ph	Bz	H	H	F	OH
XXIV-41-6	CH ₃	H	H	CH ₂ -indol-3-yl	Bz	H	H	F	OH
XXIV-41-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	H	F	OH
XXIV-41-8	CH ₃	*	H	*	Bz	H	H	F	OH

*R2 and R3b joined together by (CH₂)₃ to form five-membered ring.

40

TABLE XXIV-43

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIV-43-1	ⁱ Pr	H	H	H	Bz	H	H	F	OH
XXIV-43-2	ⁱ Pr	H	H	CH ₃	Bz	H	H	F	OH
XXIV-43-3	ⁱ Pr	H	H	CH(CH ₃) ₂	Bz	H	H	F	OH
XXIV-43-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	H	F	OH
XXIV-43-5	ⁱ Pr	H	H	CH ₂ Ph	Bz	H	H	F	OH
XXIV-43-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	Bz	H	H	F	OH
XXIV-43-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	H	F	OH
XXIV-43-8	ⁱ Pr	*	H	*	Bz	H	H	F	OH

*R2 and R3b joined together by (CH₂)₃ to form five-membered ring.

55

TABLE XXIV-44

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIV-44-1	^t Bu	H	H	H	Bz	H	H	F	OH
XXIV-44-2	^t Bu	H	H	CH ₃	Bz	H	H	F	OH
XXIV-44-3	^t Bu	H	H	CH(CH ₃) ₂	Bz	H	H	F	OH
XXIV-44-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	H	F	OH
XXIV-44-5	^t Bu	H	H	CH ₂ Ph	Bz	H	H	F	OH
XXIV-44-6	^t Bu	H	H	CH ₂ -indol-3-yl	Bz	H	H	F	OH
XXIV-44-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	H	F	OH
XXIV-44-8	^t Bu	*	H	*	Bz	H	H	F	OH

*R2 and R3b joined together by (CH₂)₃ to form five-membered ring.

487

TABLE XXIV-45

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIV-45-1	Ph	H	H	H	Bz	H	H	F	OH
XXIV-45-2	Ph	H	H	CH ₃	Bz	H	H	F	OH
XXIV-45-3	Ph	H	H	CH(CH ₃) ₂	Bz	H	H	F	OH
XXIV-45-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	H	F	OH
XXIV-45-5	Ph	H	H	CH ₂ Ph	Bz	H	H	F	OH
XXIV-45-6	Ph	H	H	CH ₂ -indol-3-yl	Bz	H	H	F	OH
XXIV-45-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	H	F	OH
XXIV-45-8	Ph	*	H	*	Bz	H	H	F	OH

*R2 and R3b joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIV-46

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIV-46-1	p-Me—Ph	H	H	H	Bz	H	H	F	OH
XXIV-46-2	p-Me—Ph	H	H	CH ₃	Bz	H	H	F	OH
XXIV-46-3	p-Me—Ph	H	H	CH(CH ₃) ₂	Bz	H	H	F	OH
XXIV-46-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	H	F	OH
XXIV-46-5	p-Me—Ph	H	H	CH ₂ Ph	Bz	H	H	F	OH
XXIV-46-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	H	F	OH
XXIV-46-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	H	F	OH
XXIV-46-8	p-Me—Ph	*	H	*	Bz	H	H	F	OH

*R2 and Rib joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIV-47

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIV-47-1	p-F—Ph	H	H	H	Bz	H	H	F	OH
XXIV-47-2	p-F—Ph	H	H	CH ₃	Bz	H	H	F	OH
XXIV-47-3	p-F—Ph	H	H	CH(CH ₃) ₂	Bz	H	H	F	OH
XXIV-47-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	H	F	OH
XXIV-47-5	p-F—Ph	H	H	CH ₂ Ph	Bz	H	H	F	OH
XXIV-47-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	H	F	OH
XXIV-47-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	H	F	OH
XXIV-47-8	p-F—Ph	*	H	*	Bz	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIV-48

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIV-48-1	p-Cl—Ph	H	H	H	Bz	H	H	F	OH
XXIV-48-2	p-Cl—Ph	H	H	CH ₃	Bz	H	H	F	OH
XXIV-48-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	Bz	H	H	F	OH
XXIV-48-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	H	F	OH
XXIV-48-5	p-Cl—Ph	H	H	CH ₂ Ph	Bz	H	H	F	OH
XXIV-48-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	H	F	OH
XXIV-48-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	H	F	OH
XXIV-48-8	p-Cl—Ph	*	H	*	Bz	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIV-49

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIV-49-1	p-Br—Ph	H	H	H	Bz	H	H	F	OH
XXIV-49-2	p-Br—Ph	H	H	CH ₃	Bz	H	H	F	OH

488

TABLE XXIV-49-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIV-49-3	p-Br—Ph	H	H	CH(CH ₃) ₂	Bz	H	H	F	OH
XXIV-49-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	H	F	OH
XXIV-49-5	p-Br—Ph	H	H	CH ₂ Ph	Bz	H	H	F	OH
XXIV-49-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	H	F	OH
XXIV-49-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	H	F	OH

TABLE XXIV-49-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIV-49-8	p-Br—Ph	*	H	*	Bz	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIV-50

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIV-50-1	p-I—Ph	H	H	H	Bz	H	H	F	OH
XXIV-50-2	p-I—Ph	H	H	CH ₃	Bz	H	H	F	OH
XXIV-50-3	p-I—Ph	H	H	CH(CH ₃) ₂	Bz	H	H	F	OH
XXIV-50-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	H	F	OH
XXIV-50-5	p-I—Ph	H	H	CH ₂ Ph	Bz	H	H	F	OH
XXIV-50-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	H	F	OH
XXIV-50-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	H	F	OH
XXIV-50-8	p-I—Ph	*	H	*	Bz	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

XXV

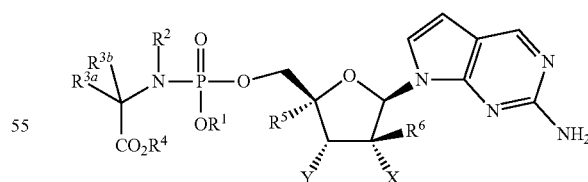


TABLE XXV-1

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXV-1-1	CH ₃	H	H	H	CH ₃	H	CH ₃	F	OH
XXV-1-2	CH ₃	H	H	CH ₃	CH ₃	H	CH ₃	F	OH
XXV-1-3	CH ₃	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH
XXV-1-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH
XXV-1-5	CH ₃	H	H	CH ₂ Ph	CH ₃	H	CH ₃	F	OH

489

TABLE XXV-1-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXV-1-6	CH ₃	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	F	OH
XXV-1-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	F	OH
XXV-1-8	CH ₃	*	H	*	CH ₃	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXV-2

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXV-2-1	Et	H	H	H	CH ₃	H	CH ₃	F	OH
XXV-2-2	Et	H	H	CH ₃	CH ₃	H	CH ₃	F	OH
XXV-2-3	Et	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH
XXV-2-4	Et	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH
XXV-2-5	Et	H	H	CH ₂ Ph	CH ₃	H	CH ₃	F	OH
XXV-2-6	Et	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	F	OH
XXV-2-7	Et	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	F	OH
XXV-2-8	Et	*	H	*	CH ₃	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXV-3

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXV-3-1	^t Pr	H	H	H	CH ₃	H	CH ₃	F	OH
XXV-3-2	^t Pr	H	H	CH ₃	CH ₃	H	CH ₃	F	OH
XXV-3-3	^t Pr	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH
XXV-3-4	^t Pr	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH
XXV-3-5	^t Pr	H	H	CH ₂ Ph	CH ₃	H	CH ₃	F	OH
XXV-3-6	^t Pr	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	F	OH
XXV-3-7	^t Pr	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	F	OH
XXV-3-8	^t Pr	*	H	*	CH ₃	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXV-4

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X
XXV-4-1	^t Bu	H	H	H	CH ₃	H	CH ₃	F OH
XXV-4-2	^t Bu	H	H	CH ₃	CH ₃	H	CH ₃	F OH
XXV-4-3	^t Bu	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	F OH
XXV-4-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	F OH
XXV-4-5	^t Bu	H	H	CH ₂ Ph	CH ₃	H	CH ₃	F OH
XXV-4-6	^t Bu	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	F OH
XXV-4-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	F OH
XXV-4-8	^t Bu	*	H	*	CH ₃	H	CH ₃	F OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXV-5

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXV-5-1	Ph	H	H	H	CH ₃	H	CH ₃	F	OH
XXV-5-2	Ph	H	H	CH ₃	CH ₃	H	CH ₃	F	OH
XXV-5-3	Ph	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH
XXV-5-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH
XXV-5-5	Ph	H	H	CH ₂ Ph	CH ₃	H	CH ₃	F	OH
XXV-5-6	Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	F	OH
XXV-5-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	F	OH
XXV-5-8	Ph	*	H	*	CH ₃	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

490

TABLE XXV-6

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	
5	XXV-6-1	p-Me—Ph	H	H	H	CH ₃	H	CH ₃	F OH
	XXV-6-2	p-Me—Ph	H	H	CH ₃	CH ₃	H	CH ₃	F OH
	XXV-6-3	p-Me—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	F OH
10	XXV-6-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	F OH
	XXV-6-5	p-Me—Ph	H	H	CH ₂ Ph	CH ₃	H	CH ₃	F OH
	XXV-6-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	F OH
15	XXV-6-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	F OH
	XXV-6-8	p-Me—Ph	*	H	*	CH ₃	H	CH ₃	F OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXV-7

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
25	XXV-7-1	p-F—Ph	H	H	H	CH ₃	H	CH ₃	F OH
	XXV-7-2	p-F—Ph	H	H	CH ₃	CH ₃	H	CH ₃	F OH
	XXV-7-3	p-F—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	F OH
30	XXV-7-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	F OH
	XXV-7-6	p-F—Ph	H	H	CH ₂ Ph	CH ₃	H	CH ₃	F OH
	XXV-7-7	p-F—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	F OH
35	XXV-7-8	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	F OH
	XXV-7-20	p-F—Ph	*	H	*	CH ₃	H	CH ₃	F OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXV-8

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
45	XXV-8-1	p-Cl—Ph	H	H	H	CH ₃	H	CH ₃	F OH
	XXV-8-2	p-Cl—Ph	H	H	CH ₃	CH ₃	H	CH ₃	F OH
	XXV-8-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	F OH
	XXV-8-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	F OH
50	XXV-8-5	p-Cl—Ph	H	H	CH ₂ Ph	CH ₃	H	CH ₃	F OH
	XXV-8-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	F OH
	XXV-8-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	F OH
55	XXV-8-8	p-Cl—Ph	*	H	*	CH ₃	H	CH ₃	F OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXV-9

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	
60	XXV-9-1	p-Br—Ph	H	H	H	CH ₃	H	CH ₃	F OH
65	XXV-9-2	p-Br—Ph	H	H	CH ₃	CH ₃	H	CH ₃	F OH

491

TABLE XXV-9-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXV-9-3	p-Br—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH
XXV-9-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH
XXV-9-6	p-Br—Ph	H	H	CH ₂ Ph	CH ₃	H	CH ₃	F	OH
XXV-9-7	p-Br—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	F	OH
XXV-9-8	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	F	OH
XXV-9-20	p-Br—Ph	*	H	*	CH ₃	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXV-10

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXV-10-1	p-I—Ph	H	H	H	CH ₃	H	CH ₃	F	OH
XXV-10-2	p-I—Ph	H	H	CH ₃	CH ₃	H	CH ₃	F	OH
XXV-10-3	p-I—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH
XXV-10-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH
XXV-10-5	p-I—Ph	H	H	CH ₂ Ph	CH ₃	H	CH ₃	F	OH
XXV-10-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	F	OH
XXV-10-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	F	OH
XXV-10-8	p-I—Ph	*	H	*	CH ₃	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXV-11

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXV-11-1	CH ₃	H	H	H	Et	H	CH ₃	F	OH
XXV-11-2	CH ₃	H	H	CH ₃	Et	H	CH ₃	F	OH
XXV-11-3	CH ₃	H	H	CH(CH ₃) ₂	Et	H	CH ₃	F	OH
X3W-11-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	F	OH
XXV-11-5	CH ₃	H	H	CH ₂ Ph	Et	H	CH ₃	F	OH
XXV-11-6	CH ₃	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	F	OH
XXV-11-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	F	OH
XXV-11-8	CH ₃	*	H	*	Et	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXV-12

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXV-12-1	Et	H	H	H	Et	H	CH ₃	F	OH
XXV-12-2	Et	H	H	CH ₃	Et	H	CH ₃	F	OH
XXV-12-3	Et	H	H	CH(CH ₃) ₂	Et	H	CH ₃	F	OH
XXV-12-4	Et	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	F	OH
XXV-12-5	Et	H	H	CH ₂ Ph	Et	H	CH ₃	F	OH
XXV-12-6	Et	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	F	OH
XXV-12-7	Et	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	F	OH
XXV-12-8	Et	*	H	*	Et	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

492

TABLE XXV-13

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXV-13-1	ⁱ Pr	H	H	H	Et	H	CH ₃	F	OH
XXV-13-2	ⁱ Pr	H	H	CH ₃	Et	H	CH ₃	F	OH
XXV-13-3	ⁱ Pr	H	H	CH(CH ₃) ₂	Et	H	CH ₃	F	OH
XXV-13-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	F	OH
XXV-13-5	ⁱ Pr	H	H	CH ₂ Ph	Et	H	CH ₃	F	OH
XXV-13-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	F	OH
XXV-13-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	F	OH
XXV-13-8	ⁱ Pr	*	H	*	Et	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXV-14

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXV-14-1	^t Bu	H	H	H	Et	H	CH ₃	F	OH
XXV-14-2	^t Bu	H	H	CH ₃	Et	H	CH ₃	F	OH
XXV-14-3	^t Bu	H	H	CH(CH ₃) ₂	Et	H	CH ₃	F	OH
XXV-14-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	F	OH
XXV-14-5	^t Bu	H	H	CH ₂ Ph	Et	H	CH ₃	F	OH
XXV-14-6	^t Bu	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	F	OH
XXV-14-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	F	OH
XXV-14-8	^t Bu	*	H	*	Et	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXV-15

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXV-15-1	Ph	H	H	H	Et	H	CH ₃	F	OH
XXV-15-2	Ph	H	H	CH ₃	Et	H	CH ₃	F	OH
XXV-15-3	Ph	H	H	CH(CH ₃) ₂	Et	H	CH ₃	F	OH
XXV-15-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	F	OH
XXV-15-5	Ph	H	H	CH ₂ Ph	Et	H	CH ₃	F	OH
XXV-15-6	Ph	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	F	OH
XXV-15-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	F	OH
XXV-15-8	Ph	*	H	*	Et	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXV-16

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXV-16-1	p-Me—Ph	H	H	H	Et	H	CH ₃	F	OH
XXV-16-2	p-Me—Ph	H	H	CH ₃	Et	H	CH ₃	F	OH
XXV-16-3	p-Me—Ph	H	H	CH(CH ₃) ₂	Et	H	CH ₃	F	OH
XXV-16-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	F	OH
XXV-16-5	p-Me—Ph	H	H	CH ₂ Ph	Et	H	CH ₃	F	OH
XXV-16-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	F	OH
XXV-16-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	F	OH
XXV-16-8	p-Me—Ph	*	H	*	Et	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXV-17

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXV-17-1	p-F—Ph	H	H	H	Et	H	CH ₃	F	OH
XXV-17-2	p-F—Ph	H	H	CH ₃	Et	H	CH ₃	F	OH
XXV-17-3	p-F—Ph	H	H	CH(CH ₃) ₂	Et	H	CH ₃	F	OH
XXV-17-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	F	OH
XXV-17-5	p-F—Ph	H	H	CH ₂ Ph	Et	H	CH ₃	F	OH

493

TABLE XXV-17-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXV-17-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	F	OH
XXV-17-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	F	OH
XXV-17-8	p-F—Ph	*	H	*	Et	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXV-18

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXV-18-1	p-Cl—Ph	H	H	H	Et	H	CH ₃	F	OH
XXV-18-2	p-Cl—Ph	H	H	CH ₃	Et	H	CH ₃	F	OH
XXV-18-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	Et	H	CH ₃	F	OH
XXV-18-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	F	OH
XXV-18-5	p-Cl—Ph	H	H	CH ₂ Ph	Et	H	CH ₃	F	OH
XXV-18-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	F	OH
XXV-18-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	F	OH
XXV-18-8	p-Cl—Ph	*	H	*	Et	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXV-19

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXV-19-1	p-Br—Ph	H	H	H	Et	H	CH ₃	F	OH
XXV-19-2	p-Br—Ph	H	H	CH ₃	Et	H	CH ₃	F	OH
XXV-19-3	p-Br—Ph	H	H	CH(CH ₃) ₂	Et	H	CH ₃	F	OH
XXV-19-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	F	OH
XXV-19-5	p-Br—Ph	H	H	CH ₂ Ph	Et	H	CH ₃	F	OH
XXV-19-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	F	OH
XXV-19-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	F	OH
XXV-19-8	p-Br—Ph	*	H	*	Et	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXV-20

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXV-20-1	p-I—Ph	H	H	H	Et	H	CH ₃	F	OH
XXV-20-2	p-I—Ph	H	H	CH ₃	Et	H	CH ₃	F	OH
XXV-20-3	p-I—Ph	H	H	CH(CH ₃) ₂	Et	H	CH ₃	F	OH
XXV-20-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	F	OH
XXV-20-5	p-I—Ph	H	H	CH ₂ Ph	Et	H	CH ₃	F	OH
XXV-20-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	F	OH
XXV-20-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	F	OH
XXV-20-8	p-I—Ph	*	H	*	Et	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXV-21

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXV-21-1	CH ₃	H	H	H	ⁱ Pr	H	CH ₃	F	OH
XXV-21-2	CH ₃	H	H	CH ₃	ⁱ Pr	H	CH ₃	F	OH

494

TABLE XXV-21-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXV-21-3	CH ₃	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH
XXV-21-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH
XXV-21-5	CH ₃	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	F	OH
XXV-21-6	CH ₃	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	F	OH
XXV-21-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	F	OH
XXV-21-8	CH ₃	*	H	*	ⁱ Pr	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXV-22

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXV-22-1	Et	H	H	H	ⁱ Pr	H	CH ₃	F	OH
XXV-22-2	Et	H	H	CH ₃	ⁱ Pr	H	CH ₃	F	OH
XXV-22-3	Et	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH
XXV-22-4	Et	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH
XXV-22-5	Et	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	F	OH
XXV-22-6	Et	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	F	OH
XXV-22-7	Et	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	F	OH
XXV-22-8	Et	*	H	*	ⁱ Pr	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXV-23

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXV-23-1	ⁱ Pr	H	H	H	ⁱ Pr	H	CH ₃	F	OH
XXV-23-2	ⁱ Pr	H	H	CH ₃	ⁱ Pr	H	CH ₃	F	OH
XXV-23-3	ⁱ Pr	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH
XXV-23-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH
XXV-23-5	ⁱ Pr	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	F	OH
XXV-23-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	F	OH
XXV-23-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	F	OH
XXV-23-8	ⁱ Pr	*	H	*	ⁱ Pr	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXV-24

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXV-24-1	^t Bu	H	H	H	ⁱ Pr	H	CH ₃	F	OH
XXV-24-2	^t Bu	H	H	CH ₃	ⁱ Pr	H	CH ₃	F	OH
XXV-24-3	^t Bu	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH
XXV-24-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH
XXV-24-5	^t Bu	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	F	OH
XXV-24-6	^t Bu	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	F	OH
XXV-24-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	F	OH
XXV-24-8	^t Bu	*	H	*	ⁱ Pr	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXV-25

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXV-25-1	Ph	H	H	H	ⁱ Pr	H	CH ₃	F	OH
XXV-25-2	Ph	H	H	CH ₃	ⁱ Pr	H	CH ₃	F	OH
XXV-25-3	Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH
XXV-25-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH
XXV-25-5	Ph	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	F	OH
XXV-25-6	Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	F	OH
XXV-25-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	F	OH
XXV-25-8	Ph	*	H	*	ⁱ Pr	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

495

TABLE XXV-26

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXV-26-1	p-Me—Ph	H	H	H	ⁱ Pr	H	CH ₃	F	OH
XXV-26-2	p-Me—Ph	H	H	CH ₃	ⁱ Pr	H	CH ₃	F	OH
XXV-26-3	p-Me—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH
XXV-26-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH
XXV-26-5	p-Me—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	F	OH
XXV-26-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	F	OH
XXV-26-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	F	OH
XXV-26-8	p-Me—Ph	*	H	*	ⁱ Pr	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXV-27

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXV-27-1	p-F—Ph	H	H	H	ⁱ Pr	H	CH ₃	F	OH
XXV-27-2	p-F—Ph	H	H	CH ₃	ⁱ Pr	H	CH ₃	F	OH
XXV-27-3	p-F—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH
XXV-27-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH
XXV-27-5	p-F—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	F	OH
XXV-27-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	F	OH
XXV-27-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	F	OH
XXV-27-8	p-F—Ph	*	H	*	ⁱ Pr	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXV-28

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXV-28-1	p-Cl—Ph	H	H	H	ⁱ Pr	H	CH ₃	F	OH
XXV-28-2	p-Cl—Ph	H	H	CH ₃	ⁱ Pr	H	CH ₃	F	OH
XXV-28-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH
XXV-28-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH
XXV-28-5	p-Cl—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	F	OH
XXV-28-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	F	OH
XXV-28-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	F	OH
XXV-28-8	p-Cl—Ph	*	H	*	ⁱ Pr	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXV-29

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXV-29-1	p-Br—Ph	H	H	H	ⁱ Pr	H	CH ₃	F	OH
XXV-29-2	p-Br—Ph	H	H	CH ₃	ⁱ Pr	H	CH ₃	F	OH
XXV-29-3	p-Br—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH
XXV-29-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH
XXV-29-5	p-Br—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	F	OH
XXV-29-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	F	OH
XXV-29-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	F	OH
XXV-29-8	p-Br—Ph	*	H	*	ⁱ Pr	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXV-30

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXV-30-1	p-I—Ph	H	H	H	ⁱ Pr	H	CH ₃	F	OH
XXV-30-2	p-I—Ph	H	H	CH ₃	ⁱ Pr	H	CH ₃	F	OH
XXV-30-3	p-I—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH
XXV-30-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH
XXV-30-5	p-I—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	F	OH

496

TABLE XXV-30-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXV-30-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	F	OH
XXV-30-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	F	OH
XXV-30-8	p-I—Ph	*	H	*	ⁱ Pr	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXV-31

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXV-31-1	CH ₃	H	H	H	ⁿ Bu	H	CH ₃	F	OH
XXV-31-2	CH ₃	H	H	CH ₃	ⁿ Bu	H	CH ₃	F	OH
XXV-31-3	CH ₃	H	H	CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	F	OH
XXV-31-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	F	OH
XXV-31-5	CH ₃	H	H	CH ₂ Ph	ⁿ Bu	H	CH ₃	F	OH
XXV-31-6	CH ₃	H	H	CH ₂ -indol-3-yl	ⁿ Bu	H	CH ₃	F	OH
XXV-31-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	H	CH ₃	F	OH
XXV-31-8	CH ₃	*	H	*	ⁿ Bu	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXV-32

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXV-32-1	Et	H	H	H	ⁿ Bu	H	CH ₃	F	OH
XXV-32-2	Et	H	H	CH ₃	ⁿ Bu	H	CH ₃	F	OH
XXV-32-3	Et	H	H	CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	F	OH
XXV-32-4	Et	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	F	OH
XXV-32-5	Et	H	H	CH ₂ Ph	ⁿ Bu	H	CH ₃	F	OH
XXV-32-6	Et	H	H	CH ₂ -indol-3-yl	ⁿ Bu	H	CH ₃	F	OH

TABLE XXV-32-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXV-32-7	Et	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	H	CH ₃	F	OH
XXV-32-8	Et	*	H	*	ⁿ Bu	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

497

TABLE XXV-33

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXV-33-1	^t Pr	H	H	H	ⁿ Bu	H	CH ₃	F	OH
XXV-33-2	^t Pr	H	H	CH ₃	ⁿ Bu	H	CH ₃	F	OH
XXV-33-3	^t Pr	H	H	CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	F	OH
XXV-33-4	^t Pr	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	F	OH
XXV-33-5	^t Pr	H	H	CH ₂ Ph	ⁿ Bu	H	CH ₃	F	OH
XXV-33-6	^t Pr	H	H	CH ₂ -indol-3-yl	ⁿ Bu	H	CH ₃	F	OH
XXV-33-7	^t Pr	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	H	CH ₃	F	OH
XXV-33-8	^t Pr	*	H	*	ⁿ Bu	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXV-34

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXV-34-1	^t Bu	H	H	H	ⁿ Bu	H	CH ₃	F	OH
XXV-34-2	^t Bu	H	H	CH ₃	ⁿ Bu	H	CH ₃	F	OH
XXV-34-3	^t Bu	H	H	CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	F	OH
XXV-34-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	F	OH
XXV-34-5	^t Bu	H	H	CH ₂ Ph	ⁿ Bu	H	CH ₃	F	OH

498

TABLE XXV-34-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXV-34-6	^t Bu	H	H	CH ₂ -indol-3-yl	ⁿ Bu	H	CH ₃	F	OH
XXV-34-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	H	CH ₃	F	OH
XXV-34-8	^t Bu	*	H	*	ⁿ Bu	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXV-35

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXV-35-1	Ph	H	H	H	ⁿ Bu	H	CH ₃	F	OH
XXV-35-2	Ph	H	H	CH ₃	ⁿ Bu	H	CH ₃	F	OH
XXV-35-3	Ph	H	H	CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	F	OH
XXV-35-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	F	OH
XXV-35-5	Ph	H	H	CH ₂ Ph	ⁿ Bu	H	CH ₃	F	OH
XXV-35-6	Ph	H	H	CH ₂ -indol-3-yl	ⁿ Bu	H	CH ₃	F	OH
XXV-35-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	H	CH ₃	F	OH
XXV-35-8	Ph	*	H	*	ⁿ Bu	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXV-36

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXV-36-1	p-Me-Ph	H	H	H	ⁿ Bu	H	CH ₃	F	OH
XXV-36-2	p-Me-Ph	H	H	CH ₃	ⁿ Bu	H	CH ₃	F	OH
XXV-36-3	p-Me-Ph	H	H	CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	F	OH
XXV-36-4	p-Me-Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	F	OH
XXV-36-5	p-Me-Ph	H	H	CH ₂ Ph	ⁿ Bu	H	CH ₃	F	OH
XXV-36-6	p-Me-Ph	H	H	CH ₂ -indol-3-yl	ⁿ Bu	H	CH ₃	F	OH
XXV-36-7	p-Me-Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	H	CH ₃	F	OH
XXV-36-8	p-Me-Ph	*	H	*	ⁿ Bu	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXV-37

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXV-37-1	p-F-Ph	H	H	H	ⁿ Bu	H	CH ₃	F	OH
XXV-37-2	p-F-Ph	H	H	CH ₃	ⁿ Bu	H	CH ₃	F	OH
XXV-37-3	p-F-Ph	H	H	CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	F	OH
XXV-37-4	p-F-Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	F	OH
XXV-37-5	p-F-Ph	H	H	CH ₂ Ph	ⁿ Bu	H	CH ₃	F	OH
XXV-37-6	p-F-Ph	H	H	CH ₂ -indol-3-yl	ⁿ Bu	H	CH ₃	F	OH
XXV-37-7	p-F-Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	H	CH ₃	F	OH
XXV-37-8	p-F-Ph	*	H	*	ⁿ Bu	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXV-38

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXV-38-1	p-Cl-Ph	H	H	H	ⁿ Bu	H	CH ₃	F	OH
XXV-38-2	p-Cl-Ph	H	H	CH ₃	ⁿ Bu	H	CH ₃	F	OH
XXV-38-3	p-Cl-Ph	H	H	CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	F	OH
XXV-38-4	p-Cl-Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	F	OH
XXV-38-5	p-Cl-Ph	H	H	CH ₂ Ph	ⁿ Bu	H	CH ₃	F	OH
XXV-38-6	p-Cl-Ph	H	H	CH ₂ -indol-3-yl	ⁿ Bu	H	CH ₃	F	OH
XXV-38-7	p-Cl-Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	H	CH ₃	F	OH
XXV-38-8	p-Cl-Ph	*	H	*	ⁿ Bu	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXV-39

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXV-39-1	p-Br—Ph	H	H	H	^t Bu	H	CH ₃	F	OH
XXV-39-2	p-Br—Ph	H	H	CH ₃	^t Bu	H	CH ₃	F	OH
XXV-39-3	p-Br—Ph	H	H	CH(CH ₃) ₂	^t Bu	H	CH ₃	F	OH
XXV-39-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	^t Bu	H	CH ₃	F	OH
XXV-39-5	p-Br—Ph	H	H	CH ₂ Ph	^t Bu	H	CH ₃	F	OH
XXV-39-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	^t Bu	H	CH ₃	F	OH
XXV-39-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	^t Bu	H	CH ₃	F	OH
XXV-39-8	p-Br—Ph	*	H	*	^t Bu	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXV-40

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXV-40-1	p-I—Ph	H	H	H	^t Bu	H	CH ₃	F	OH
XXV-40-2	p-I—Ph	H	H	CH ₃	^t Bu	H	CH ₃	F	OH
XXV-40-3	p-I—Ph	H	H	CH(CH ₃) ₂	^t Bu	H	CH ₃	F	OH
XXV-40-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	^t Bu	H	CH ₃	F	OH
XXV-40-5	p-I—Ph	H	H	CH ₂ Ph	^t Bu	H	CH ₃	F	OH
XXV-40-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	^t Bu	H	CH ₃	F	OH
XXV-40-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	^t Bu	H	CH ₃	F	OH
XXV-40-8	p-I—Ph	*	H	*	^t Bu	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXV-41

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXV-41-1	CH ₃	H	H	H	Bz	H	CH ₃	F	OH
XXV-41-2	CH ₃	H	H	CH ₃	Bz	H	CH ₃	F	OH
XXV-41-3	CH ₃	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	F	OH
XXV-41-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	F	OH
XXV-41-5	CH ₃	H	H	CH ₂ Ph	Bz	H	CH ₃	F	OH
XXV-41-6	CH ₃	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	F	OH
XXV-41-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	F	OH
XXV-41-8	CH ₃	*	H	*	Bz	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXV-42

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXV-42-1	Et	H	H	H	Bz	H	CH ₃	F	OH
XXV-42-2	Et	H	H	CH ₃	Bz	H	CH ₃	F	OH
XXV-42-3	Et	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	F	OH
XXV-42-4	Et	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	F	OH
XXV-42-5	Et	H	H	CH ₂ Ph	Bz	H	CH ₃	F	OH
XXV-42-6	Et	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	F	OH
XXV-42-7	Et	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	F	OH
XXV-42-8	Et	*	H	*	Bz	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXV-43

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXV-43-1	^t Pr	H	H	H	Bz	H	CH ₃	F	OH
XXV-43-2	^t Pr	H	H	CH ₃	Bz	H	CH ₃	F	OH
XXV-43-3	^t Pr	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	F	OH
XXV-43-4	^t Pr	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	F	OH
XXV-43-5	^t Pr	H	H	CH ₂ Ph	Bz	H	CH ₃	F	OH
XXV-43-6	^t Pr	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	F	OH
XXV-43-7	^t Pr	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	F	OH
XXV-43-8	^t Pr	*	H	*	Bz	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXV-44

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXV-44-1	^t Bu	H	H	H	Bz	H	CH ₃	F	OH
XXV-44-2	^t Bu	H	H	CH ₃	Bz	H	CH ₃	F	OH
XXV-44-3	^t Bu	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	F	OH
XXV-44-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	F	OH
XXV-44-5	^t Bu	H	H	CH ₂ Ph	Bz	H	CH ₃	F	OH
XXV-44-6	^t Bu	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	F	OH
XXV-44-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	F	OH
XXV-44-8	^t Bu	*	H	*	Bz	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXV-45

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXV-45-1	Ph	H	H	H	Bz	H	CH ₃	F	OH
XXV-45-2	Ph	H	H	CH ₃	Bz	H	CH ₃	F	OH
XXV-45-3	Ph	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	F	OH
XXV-45-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	F	OH
XXV-45-5	Ph	H	H	CH ₂ Ph	Bz	H	CH ₃	F	OH
XXV-45-6	Ph	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	F	OH
XXV-45-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	F	OH
XXV-45-8	Ph	*	H	*	Bz	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXV-46

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXV-46-1	p-Me—Ph	H	H	H	Bz	H	CH ₃	F	OH
XXV-46-2	p-Me—Ph	H	H	CH ₃	Bz	H	CH ₃	F	OH
XXV-46-3	p-Me—Ph	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	F	OH
XXV-46-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	F	OH
XXV-46-5	p-Me—Ph	H	H	CH ₂ Ph	Bz	H	CH ₃	F	OH
XXV-46-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	F	OH
XXV-46-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	F	OH
XXV-46-8	p-Me—Ph	*	H	*	Bz	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXV-47

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXV-47-1	p-F—Ph	H	H	H	Bz	H	CH ₃	F	OH
XXV-47-2	p-F—Ph	H	H	CH ₃	Bz	H	CH ₃	F	OH
XXV-47-3	p-F—Ph	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	F	OH
XXV-47-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	F	OH
XXV-47-5	p-F—Ph	H	H	CH ₂ Ph	Bz	H	CH ₃	F	OH

501

TABLE XXV-47-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXV-47-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	F	OH
XXV-47-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	F	OH
XXV-47-8	p-F—Ph	*	H	*	Bz	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXV-48

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXV-48-1	p-Cl—Ph	H	H	H	Bz	H	CH ₃	F	OH
XXV-48-2	p-Cl—Ph	H	H	CH ₃	Bz	H	CH ₃	F	OH
XXV-48-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	F	OH
XXV-48-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	F	OH
XXV-48-5	p-Cl—Ph	H	H	CH ₂ Ph	Bz	H	CH ₃	F	OH
XXV-48-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	F	OH
XXV-48-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	F	OH
XXV-48-8	p-Cl—Ph	*	H	*	Bz	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXV-49

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXV-49-1	p-Br—Ph	H	H	H	Bz	H	CH ₃	F	OH
XXV-49-2	p-Br—Ph	H	H	CH ₃	Bz	H	CH ₃	F	OH
XXV-49-3	p-Br—Ph	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	F	OH
XXV-49-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	F	OH
XXV-49-5	p-Br—Ph	H	H	CH ₂ Ph	Bz	H	CH ₃	F	OH
XXV-49-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	F	OH
XXV-49-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	F	OH
XXV-49-8	p-Br—Ph	*	H	*	Bz	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXV-50

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXV-50-1	p-I—Ph	H	H	H	Bz	H	CH ₃	F	OH
XXV-50-2	p-I—Ph	H	H	CH ₃	Bz	H	CH ₃	F	OH
XXV-50-3	p-I—Ph	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	F	OH
XXV-50-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	F	OH
XXV-50-5	p-I—Ph	H	H	CH ₂ Ph	Bz	H	CH ₃	F	OH
XXV-50-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	F	OH
XXV-50-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	F	OH
XXV-50-8	p-I—Ph	*	H	*	Bz	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

502

XXVI

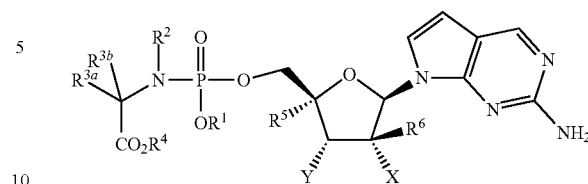


TABLE XXVI-1

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVI-1-1	CH ₃	H	H	H	CH ₃	H	F	H	OH
XXVI-1-2	CH ₃	H	H	CH ₃	CH ₃	H	F	H	OH
XXVI-1-3	CH ₃	H	H	CH(CH ₃) ₂	CH ₃	H	F	H	OH
XXVI-1-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	H	OH
XXVI-1-5	CH ₃	H	H	CH ₂ Ph	CH ₃	H	F	H	OH
XXVI-1-6	CH ₃	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	H	OH
XXVI-1-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	H	OH
XXVI-1-8	CH ₃	*	H	*	CH ₃	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVI-2

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVI-2-1	Et	H	H	H	CH ₃	H	F	H	OH
XXVI-2-2	Et	H	H	CH ₃	CH ₃	H	F	H	OH
XXVI-2-3	Et	H	H	CH(CH ₃) ₂	CH ₃	H	F	H	OH
XXVI-2-4	Et	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	H	OH
XXVI-2-5	Et	H	H	CH ₂ Ph	CH ₃	H	F	H	OH
XXVI-2-6	Et	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	H	OH
XXVI-2-7	Et	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	H	OH
XXVI-2-8	Et	*	H	*	CH ₃	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVI-3

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVI-3-1	ⁱ Pr	H	H	H	CH ₃	H	F	H	OH
XXVI-3-2	ⁱ Pr	H	H	CH ₃	CH ₃	H	F	H	OH
XXVI-3-3	ⁱ Pr	H	H	CH(CH ₃) ₂	CH ₃	H	F	H	OH
XXVI-3-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	H	OH
XXVI-3-5	ⁱ Pr	H	H	CH ₂ Ph	CH ₃	H	F	H	OH
XXVI-3-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	H	OH
XXVI-3-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	H	OH
XXVI-3-8	ⁱ Pr	*	H	*	CH ₃	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVI-4

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVI-4-1	^t Bu	H	H	H	CH ₃	H	F	H	OH
XXVI-4-2	^t Bu	H	H	CH ₃	CH ₃	H	F	H	OH
XXVI-4-3	^t Bu	H	H	CH(CH ₃) ₂	CH ₃	H	F	H	OH
XXVI-4-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	H	OH
XXVI-4-5	^t Bu	H	H	CH ₂ Ph	CH ₃	H	F	H	OH
XXVI-4-6	^t Bu	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	H	OH
XXVI-4-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	H	OH
XXVI-4-8	^t Bu	*	H	*	CH ₃	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

503

TABLE XXVI-5

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVI-5-1	Ph	H	H	H	CH ₃	H	F	H	OH
XXVI-5-2	Ph	H	H	CH ₃	CH ₃	H	F	H	OH
XXVI-5-3	Ph	H	H	CH(CH ₃) ₂	CH ₃	H	F	H	OH
XXVI-5-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	H	OH
XXVI-5-5	Ph	H	H	CH ₂ Ph	CH ₃	H	F	H	OH
XXVI-5-6	Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	H	OH
XXVI-5-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	H	OH
XXVI-5-8	Ph	*	H	*	CH ₃	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

504

TABLE XXVI-8-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVI-8-5	p-Cl—Ph	H	H	CH ₂ Ph	CH ₃	H	F	H	OH
XXVI-8-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	H	OH
XXVI-8-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	H	OH
XXVI-8-8	p-Cl—Ph	*	H	*	CH ₃	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVI-9

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVI-9-1	p-Br—Ph	H	H	H	CH ₃	H	F	H	OH
XXVI-9-2	p-Br—Ph	H	H	CH ₃	CH ₃	H	F	H	OH
XXVI-9-3	p-Br—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	F	H	OH
XXVI-9-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	H	OH
XXVI-9-6	p-Br—Ph	H	H	CH ₂ Ph	CH ₃	H	F	H	OH
XXVI-9-7	p-Br—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	H	OH
XXVI-9-8	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	H	OH
XXVI-9-20	p-Br—Ph	*	H	*	CH ₃	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVI-6

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVI-6-1	p-Me—Ph	H	H	H	CH ₃	H	F	H	OH
XXVI-6-2	p-Me—Ph	H	H	CH ₃	CH ₃	H	F	H	OH
XXVI-6-3	p-Me—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	F	H	OH
XXVI-6-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	H	OH
XXVI-6-5	p-Me—Ph	H	H	CH ₂ Ph	CH ₃	H	F	H	OH
XXVI-6-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	H	OH
XXVI-6-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	H	OH
XXVI-6-8	p-Me—Ph	*	H	*	CH ₃	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVI-7

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVI-7-1	p-F—Ph	H	H	H	CH ₃	H	F	H	OH
XXVI-7-2	p-F—Ph	H	H	CH ₃	CH ₃	H	F	H	OH
XXVI-7-3	p-F—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	F	H	OH
XXVI-7-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	H	OH
XXVI-7-6	p-F—Ph	H	H	CH ₂ Ph	CH ₃	H	F	H	OH
XXVI-7-7	p-F—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	H	OH
XXVI-7-8	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	H	OH
XXVI-7-20	p-F—Ph	*	H	*	CH ₃	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVI-8

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVI-8-1	p-Cl—Ph	H	H	H	CH ₃	H	F	H	OH
XXVI-8-2	p-Cl—Ph	H	H	CH ₃	CH ₃	H	F	H	OH
XXVI-8-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	F	H	OH
XXVI-8-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	H	OH

TABLE XXVI-10

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVI-10-1	p-I—Ph	H	H	H	CH ₃	H	F	H	OH
XXVI-10-2	p-I—Ph	H	H	CH ₃	CH ₃	H	F	H	OH
XXVI-10-3	p-I—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	F	H	OH
XXVI-10-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	H	OH
XXVI-10-5	p-I—Ph	H	H	CH ₂ Ph	CH ₃	H	F	H	OH
XXVI-10-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	H	OH
XXVI-10-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	H	OH
XXVI-10-8	p-I—Ph	*	H	*	CH ₃	H	F	H	OH

40 *R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVI-11

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVI-11-1	CH ₃	H	H	H	Et	H	F	H	OH
XXVI-11-2	CH ₃	H	H	CH ₃	Et	H	F	H	OH
XXVI-11-3	CH ₃	H	H	CH(CH ₃) ₂	Et	H	F	H	OH
XXVI-11-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	H	OH
XXVI-11-5	CH ₃	H	H	CH ₂ Ph	Et	H	F	H	OH
XXVI-11-6	CH ₃	H	H	CH ₂ -indol-3-yl	Et	H	F	H	OH
XXVI-11-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	H	OH
XXVI-11-8	CH ₃	*	H	*	Et	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVI-12

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVI-12-1	Et	H	H	H	Et	H	F	H	OH
XXVI-12-2	Et	H	H	CH ₃	Et	H	F	H	OH
XXVI-12-3	Et	H	H	CH(CH ₃) ₂	Et	H	F	H	OH
XXVI-12-4	Et	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	H	OH
XXVI-12-5	Et	H	H	CH ₂ Ph	Et	H	F	H	OH
XXVI-12-6	Et	H	H	CH ₂ -indol-3-yl	Et	H	F	H	OH
XXVI-12-7	Et	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	H	OH
XXVI-12-8	Et	*	H	*	Et	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

505

TABLE XXVI-13

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVI-13-1	ⁱ Pr	H	H	H	Et	H	F	H	OH
XXVI-13-2	ⁱ Pr	H	H	CH ₃	Et	H	F	H	OH
XXVI-13-3	ⁱ Pr	H	H	CH(CH ₃) ₂	Et	H	F	H	OH
XXVI-13-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	H	OH
XXVI-13-5	ⁱ Pr	H	H	CH ₂ Ph	Et	H	F	H	OH
XXVI-13-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	Et	H	F	H	OH
XXVI-13-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	H	OH
XXVI-13-8	ⁱ Pr	*	H	*	Et	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVI-14

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVI-14-1	^t Bu	H	H	H	Et	H	F	H	OH
XXVI-14-2	^t Bu	H	H	CH ₃	Et	H	F	H	OH
XXVI-14-3	^t Bu	H	H	CH(CH ₃) ₂	Et	H	F	H	OH
XXVI-14-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	H	OH
XXVI-14-5	^t Bu	H	H	CH ₂ Ph	Et	H	F	H	OH
XXVI-14-6	^t Bu	H	H	CH ₂ -indol-3-yl	Et	H	F	H	OH
XXVI-14-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	H	OH
XXVI-14-8	^t Bu	*	H	*	Et	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVI-15

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVI-15-1	Ph	H	H	H	Et	H	F	H	OH
XXVI-15-2	Ph	H	H	CH ₃	Et	H	F	H	OH
XXVI-15-3	Ph	H	H	CH(CH ₃) ₂	Et	H	F	H	OH
XXVI-15-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	H	OH
XXVI-15-5	Ph	H	H	CH ₂ Ph	Et	H	F	H	OH
XXVI-15-6	Ph	H	H	CH ₂ -indol-3-yl	Et	H	F	H	OH
XXVI-15-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	H	OH
XXVI-15-8	Ph	*	H	*	Et	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVI-16

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVI-16-1	p-Me—Ph	H	H	H	Et	H	F	H	OH
XXVI-16-2	p-Me—Ph	H	H	CH ₃	Et	H	F	H	OH
XXVI-16-3	p-Me—Ph	H	H	CH(CH ₃) ₂	Et	H	F	H	OH
XXVI-16-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	H	OH
XXVI-16-5	p-Me—Ph	H	H	CH ₂ Ph	Et	H	F	H	OH
XXVI-16-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	Et	H	F	H	OH
XXVI-16-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	H	OH
XXVI-16-8	p-Me—Ph	*	H	*	Et	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVI-17

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVI-17-1	p-F—Ph	H	H	H	Et	H	F	H	OH
XXVI-17-2	p-F—Ph	H	H	CH ₃	Et	H	F	H	OH
XXVI-17-3	p-F—Ph	H	H	CH(CH ₃) ₂	Et	H	F	H	OH
XXVI-17-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	H	OH
XXVI-17-5	p-F—Ph	H	H	CH ₂ Ph	Et	H	F	H	OH
XXVI-17-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	Et	H	F	H	OH
XXVI-17-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	H	OH
XXVI-17-8	p-F—Ph	*	H	*	Et	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

506

TABLE XXVI-18

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
5 XXVI-18-1	p-Cl—Ph	H	H	H	Et	H	F	H	OH
XXVI-18-2	p-Cl—Ph	H	H	CH ₃	Et	H	F	H	OH
XXVI-18-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	Et	H	F	H	OH
XXVI-18-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	H	OH
XXVI-18-5	p-Cl—Ph	H	H	CH ₂ Ph	Et	H	F	H	OH
10 XXVI-18-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	Et	H	F	H	OH
XXVI-18-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	H	OH
XXVI-18-8	p-Cl—Ph	*	H	*	Et	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

15

TABLE XXVI-19

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
20 XXVI-19-1	p-Br—Ph	H	H	H	Et	H	F	H	OH
XXVI-19-2	p-Br—Ph	H	H	CH ₃	Et	H	F	H	OH
XXVI-19-3	p-Br—Ph	H	H	CH(CH ₃) ₂	Et	H	F	H	OH
XXVI-19-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	H	OH
XXVI-19-5	p-Br—Ph	H	H	CH ₂ Ph	Et	H	F	H	OH
XXVI-19-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	Et	H	F	H	OH
XXVI-19-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	H	OH
25 XXVI-19-8	p-Br—Ph	*	H	*	Et	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

30

TABLE XXVI-20

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVI-20-1	p-I—Ph	H	H	H	Et	H	F	H	OH
XXVI-20-2	p-I—Ph	H	H	CH ₃	Et	H	F	H	OH
XXVI-20-3	p-I—Ph	H	H	CH(CH ₃) ₂	Et	H	F	H	OH
35 XXVI-20-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	H	OH
XXVI-20-5	p-I—Ph	H	H	CH ₂ Ph	Et	H	F	H	OH
XXVI-20-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	Et	H	F	H	OH
XXVI-20-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	H	OH
XXVI-20-8	p-I—Ph	*	H	*	Et	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

40

TABLE XXVI-21

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
45 XXVI-21-1	CH ₃	H	H	H	ⁱ Pr	H	F	H	OH
XXVI-21-2	CH ₃	H	H	CH ₃	ⁱ Pr	H	F	H	OH
XXVI-21-3	CH ₃	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH
XXVI-21-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH
XXVI-21-5	CH ₃	H	H	CH ₂ Ph	ⁱ Pr	H	F	H	OH
XXVI-21-6	CH ₃	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	H	OH
XXVI-21-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	H	OH
XXVI-21-8	CH ₃	*	H	*	ⁱ Pr	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

55

TABLE XXVI-22

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVI-22-1	Et	H	H	H	ⁱ Pr	H	F	H	OH
XXVI-22-2	Et	H	H	CH ₃	ⁱ Pr	H	F	H	OH
60 XXVI-22-3	Et	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH
XXVI-22-4	Et	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH
XXVI-22-5	Et	H	H	CH ₂ Ph	ⁱ Pr	H	F	H	OH
XXVI-22-6	Et	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	H	OH
XXVI-22-7	Et	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	H	OH
65 XXVI-22-8	Et	*	H	*	ⁱ Pr	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

507

TABLE XXVI-23

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVI-23-1	ⁱ Pr	H	H	H	ⁱ Pr	H	F	H	OH
XXVI-23-2	ⁱ Pr	H	H	CH ₃	ⁱ Pr	H	F	H	OH
XXVI-23-3	ⁱ Pr	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH
XXVI-23-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH
XXVI-23-5	ⁱ Pr	H	H	CH ₂ Ph	ⁱ Pr	H	F	H	OH
XXVI-23-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	H	OH
XXVI-23-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	H	OH
XXVI-23-8	ⁱ Pr	*	H	*	ⁱ Pr	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVI-24

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVI-24-1	^t Bu	H	H	H	ⁱ Pr	H	F	H	OH
XXVI-24-2	^t Bu	H	H	CH ₃	ⁱ Pr	H	F	H	OH
XXVI-24-3	^t Bu	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH
XXVI-24-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH
XXVI-24-5	^t Bu	H	H	CH ₂ Ph	ⁱ Pr	H	F	H	OH
XXVI-24-6	^t Bu	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	H	OH
XXVI-24-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	H	OH
XXVI-24-8	^t Bu	*	H	*	ⁱ Pr	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVI-25

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVI-25-1	Ph	H	H	H	ⁱ Pr	H	F	H	OH
XXVI-25-2	Ph	H	H	CH ₃	ⁱ Pr	H	F	H	OH
XXVI-25-3	Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH
XXVI-25-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH
XXVI-25-5	Ph	H	H	CH ₂ Ph	ⁱ Pr	H	F	H	OH
XXVI-25-6	Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	H	OH
XXVI-25-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	H	OH
XXVI-25-8	Ph	*	H	*	ⁱ Pr	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVI-26

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVI-26-1	p-Me—Ph	H	H	H	ⁱ Pr	H	F	H	OH
XXVI-26-2	p-Me—Ph	H	H	CH ₃	ⁱ Pr	H	F	H	OH
XXVI-26-3	p-Me—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH
XXVI-26-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH
XXVI-26-5	p-Me—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	F	H	OH
XXVI-26-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	H	OH
XXVI-26-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	H	OH
XXVI-26-8	p-Me—Ph	*	H	*	ⁱ Pr	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVI-27

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVI-27-1	p-F—Ph	H	H	H	ⁱ Pr	H	F	H	OH
XXVI-27-2	p-F—Ph	H	H	CH ₃	ⁱ Pr	H	F	H	OH
XXVI-27-3	p-F—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH
XXVI-27-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH
XXVI-27-5	p-F—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	F	H	OH

508

TABLE XXVI-27-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVI-27-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	H	OH
XXVI-27-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	H	OH
XXVI-27-8	p-F—Ph	*	H	*	ⁱ Pr	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVI-28

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVI-28-1	p-Cl—Ph	H	H	H	ⁱ Pr	H	F	H	OH
XXVI-28-2	p-Cl—Ph	H	H	CH ₃	ⁱ Pr	H	F	H	OH
XXVI-28-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH
XXVI-28-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH
XXVI-28-5	p-Cl—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	F	H	OH
XXVI-28-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	H	OH
XXVI-28-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	H	OH
XXVI-28-8	p-Cl—Ph	*	H	*	ⁱ Pr	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVI-29

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVI-29-1	p-Br—Ph	H	H	H	ⁱ Pr	H	F	H	OH
XXVI-29-2	p-Br—Ph	H	H	CH ₃	ⁱ Pr	H	F	H	OH
XXVI-29-3	p-Br—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH
XXVI-29-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH
XXVI-29-5	p-Br—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	F	H	OH
XXVI-29-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	H	OH
XXVI-29-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	H	OH
XXVI-29-8	p-Br—Ph	*	H	*	ⁱ Pr	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVI-30

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVI-30-1	p-I—Ph	H	H	H	ⁱ Pr	H	F	H	OH
XXVI-30-2	p-I—Ph	H	H	CH ₃	ⁱ Pr	H	F	H	OH
XXVI-30-3	p-I—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH
XXVI-30-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH
XXVI-30-5	p-I—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	F	H	OH
XXVI-30-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	H	OH
XXVI-30-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	H	OH
XXVI-30-8	p-I—Ph	*	H	*	ⁱ Pr	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVI-31

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVI-31-1	CH ₃	H	H	H	ⁿ Bu	H	F	H	OH
XXVI-31-2	CH ₃	H	H	CH ₃	ⁿ Bu	H	F	H	OH

509

TABLE XXVI-31-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVI-31-3	CH ₃	H	H	CH(CH ₃) ₂	"Bu	H	F	H	OH
XXVI-31-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	H	OH
XXVI-31-5	CH ₃	H	H	CH ₂ Ph	"Bu	H	F	H	OH
XXVI-31-6	CH ₃	H	H	CH ₂ -indol-3-yl	"Bu	H	F	H	OH
XXVI-31-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	H	OH
XXVI-31-8	CH ₃	*	H	*	"Bu	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVI-32

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVI-32-1	Et	H	H	H	"Bu	H	F	H	OH
XXVI-32-2	Et	H	H	CH ₃	"Bu	H	F	H	OH
XXVI-32-3	Et	H	H	CH(CH ₃) ₂	"Bu	H	F	H	OH
XXVI-32-4	Et	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	H	OH
XXVI-32-5	Et	H	H	CH ₂ Ph	"Bu	H	F	H	OH
XXVI-32-6	Et	H	H	CH ₂ -indol-3-yl	"Bu	H	F	H	OH
XXVI-32-7	Et	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	H	OH
XXVI-32-8	Et	*	H	*	"Bu	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVI-33

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVI-33-1	^t Pr	H	H	H	"Bu	H	F	H	OH
XXVI-33-2	^t Pr	H	H	CH ₃	"Bu	H	F	H	OH
XXVI-33-3	^t Pr	H	H	CH(CH ₃) ₂	"Bu	H	F	H	OH
XXVI-33-4	^t Pr	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	H	OH
XXVI-33-5	^t Pr	H	H	CH ₂ Ph	"Bu	H	F	H	OH
XXVI-33-6	^t Pr	H	H	CH ₂ -indol-3-yl	"Bu	H	F	H	OH
XXVI-33-7	^t Pr	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	H	OH
XXVI-33-8	^t Pr	*	H	*	"Bu	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVI-34

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVI-34-1	^t Bu	H	H	H	"Bu	H	F	H	OH
XXVI-34-2	^t Bu	H	H	CH ₃	"Bu	H	F	H	OH
XXVI-34-3	^t Bu	H	H	CH(CH ₃) ₂	"Bu	H	F	H	OH
XXVI-34-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	H	OH
XXVI-34-5	^t Bu	H	H	CH ₂ Ph	"Bu	H	F	H	OH
XXVI-34-6	^t Bu	H	H	CH ₂ -indol-3-yl	"Bu	H	F	H	OH
XXVI-34-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	H	OH
XXVI-34-8	^t Bu	*	H	*	"Bu	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVI-35

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVI-35-1	Ph	H	H	H	"Bu	H	F	H	OH
XXVI-35-2	Ph	H	H	CH ₃	"Bu	H	F	H	OH
XXVI-35-3	Ph	H	H	CH(CH ₃) ₂	"Bu	H	F	H	OH
XXVI-35-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	H	OH
XXVI-35-5	Ph	H	H	CH ₂ Ph	"Bu	H	F	H	OH
XXVI-35-6	Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	F	H	OH
XXVI-35-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	H	OH
XXVI-35-8	Ph	*	H	*	"Bu	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

510

TABLE XXVI-36

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
5 XXVI-36-1	p-Me-Ph	H	H	H	"Bu	H	F	H	OH
XXVI-36-2	p-Me-Ph	H	H	CH ₃	"Bu	H	F	H	OH
XXVI-36-3	p-Me-Ph	H	H	CH(CH ₃) ₂	"Bu	H	F	H	OH
10 XXVI-36-4	p-Me-Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	H	OH
XXVI-36-5	p-Me-Ph	H	H	CH ₂ Ph	"Bu	H	F	H	OH
XXVI-36-6	p-Me-Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	F	H	OH
15 XXVI-36-7	p-Me-Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	H	OH
XXVI-36-8	p-Me-Ph	*	H	*	"Bu	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVI-37

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
25 XXVI-37-1	p-F-Ph	H	H	H	"Bu	H	F	H	OH
XXVI-37-2	p-F-Ph	H	H	CH ₃	"Bu	H	F	H	OH
XXVI-37-3	p-F-Ph	H	H	CH(CH ₃) ₂	"Bu	H	F	H	OH
XXVI-37-4	p-F-Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	H	OH
XXVI-37-5	p-F-Ph	H	H	CH ₂ Ph	"Bu	H	F	H	OH
XXVI-37-6	p-F-Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	F	H	OH
30 XXVI-37-7	p-F-Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	H	OH
XXVI-37-8	p-F-Ph	*	H	*	"Bu	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVI-38

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
40 XXVI-38-1	p-Cl-Ph	H	H	H	"Bu	H	F	H	OH
XXVI-38-2	p-Cl-Ph	H	H	CH ₃	"Bu	H	F	H	OH
XXVI-38-3	p-Cl-Ph	H	H	CH(CH ₃) ₂	"Bu	H	F	H	OH
XXVI-38-4	p-Cl-Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	H	OH
45 XXVI-38-5	p-Cl-Ph	H	H	CH ₂ Ph	"Bu	H	F	H	OH
XXVI-38-6	p-Cl-Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	F	H	OH
XXVI-38-7	p-Cl-Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	H	OH
50 XXVI-38-8	p-Cl-Ph	*	H	*	"Bu	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVI-39

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
55 XXVI-39-1	p-Br-Ph	H	H	H	"Bu	H	F	H	OH
XXVI-39-2	p-Br-Ph	H	H	CH ₃	"Bu	H	F	H	OH
60 XXVI-39-3	p-Br-Ph	H	H	CH(CH ₃) ₂	"Bu	H	F	H	OH
XXVI-39-4	p-Br-Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	H	OH
XXVI-39-5	p-Br-Ph	H	H	CH ₂ Ph	"Bu	H	F	H	OH
65 XXVI-39-6	p-Br-Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	F	H	OH

511

TABLE XXVI-39-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVI-39-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	^t Bu	H	F	H	OH
XXVI-39-8	p-Br—Ph	*	H	*	^t Bu	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVI-40

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVI-40-1	p-I—Ph	H	H	H	^t Bu	H	F	H	OH
XXVI-40-2	p-I—Ph	H	H	CH ₃	^t Bu	H	F	H	OH
XXVI-40-3	p-I—Ph	H	H	CH(CH ₃) ₂	^t Bu	H	F	H	OH
XXVI-40-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	^t Bu	H	F	H	OH
XXVI-40-5	p-I—Ph	H	H	CH ₂ Ph	^t Bu	H	F	H	OH
XXVI-40-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	^t Bu	H	F	H	OH
XXVI-40-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	^t Bu	H	F	H	OH
XXVI-40-8	p-I—Ph	*	H	*	^t Bu	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVI-41

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVI-41-1	CH ₃	H	H	H	Bz	H	F	H	OH
XXVI-41-2	CH ₃	H	H	CH ₃	Bz	H	F	H	OH
XXVI-41-3	CH ₃	H	H	CH(CH ₃) ₂	Bz	H	F	H	OH
XXVI-41-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	H	OH
XXVI-41-5	CH ₃	H	H	CH ₂ Ph	Bz	H	F	H	OH
XXVI-41-6	CH ₃	H	H	CH ₂ -indol-3-yl	Bz	H	F	H	OH
XXVI-41-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	H	OH
XXVI-41-8	CH ₃	*	H	*	Bz	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVI-42

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVI-42-1	Et	H	H	H	Bz	H	F	H	OH
XXVI-42-2	Et	H	H	CH ₃	Bz	H	F	H	OH
XXVI-42-3	Et	H	H	CH(CH ₃) ₂	Bz	H	F	H	OH
XXVI-42-4	Et	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	H	OH
XXVI-42-5	Et	H	H	CH ₂ Ph	Bz	H	F	H	OH
XXVI-42-6	Et	H	H	CH ₂ -indol-3-yl	Bz	H	F	H	OH
XXVI-42-7	Et	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	H	OH
XXVI-42-8	Et	*	H	*	Bz	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVI-43

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVI-43-1	ⁱ Pr	H	H	H	Bz	H	F	H	OH
XXVI-43-2	ⁱ Pr	H	H	CH ₃	Bz	H	F	H	OH
XXVI-43-3	ⁱ Pr	H	H	CH(CH ₃) ₂	Bz	H	F	H	OH
XXVI-43-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	H	OH
XXVI-43-5	ⁱ Pr	H	H	CH ₂ Ph	Bz	H	F	H	OH
XXVI-43-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	Bz	H	F	H	OH
XXVI-43-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	H	OH
XXVI-43-8	ⁱ Pr	*	H	*	Bz	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

512

TABLE XXVI-44

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVI-44-1	^t Bu	H	H	H	Bz	H	F	H	OH
XXVI-44-2	^t Bu	H	H	CH ₃	Bz	H	F	H	OH
XXVI-44-3	^t Bu	H	H	CH(CH ₃) ₂	Bz	H	F	H	OH
XXVI-44-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	H	OH
XXVI-44-5	^t Bu	H	H	CH ₂ Ph	Bz	H	F	H	OH
XXVI-44-6	^t Bu	H	H	CH ₂ -indol-3-yl	Bz	H	F	H	OH
XXVI-44-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	H	OH
XXVI-44-8	^t Bu	*	H	*	Bz	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVI-45

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVI-45-1	Ph	H	H	H	Bz	H	F	H	OH
XXVI-45-2	Ph	H	H	CH ₃	Bz	H	F	H	OH
XXVI-45-3	Ph	H	H	CH(CH ₃) ₂	Bz	H	F	H	OH
XXVI-45-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	H	OH
XXVI-45-5	Ph	H	H	CH ₂ Ph	Bz	H	F	H	OH
XXVI-45-6	Ph	H	H	CH ₂ -indol-3-yl	Bz	H	F	H	OH
XXVI-45-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	H	OH
XXVI-45-8	Ph	*	H	*	Bz	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVI-46

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVI-46-1	p-Me—Ph	H	H	H	Bz	H	F	H	OH
XXVI-46-2	p-Me—Ph	H	H	CH ₃	Bz	H	F	H	OH
XXVI-46-3	p-Me—Ph	H	H	CH(CH ₃) ₂	Bz	H	F	H	OH
XXVI-46-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	H	OH
XXVI-46-5	p-Me—Ph	H	H	CH ₂ Ph	Bz	H	F	H	OH
XXVI-46-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	F	H	OH
XXVI-46-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	H	OH
XXVI-46-8	p-Me—Ph	*	H	*	Bz	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVI-47

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVI-47-1	p-F—Ph	H	H	H	Bz	H	F	H	OH
XXVI-47-2	p-F—Ph	H	H	CH ₃	Bz	H	F	H	OH
XXVI-47-3	p-F—Ph	H	H	CH(CH ₃) ₂	Bz	H	F	H	OH
XXVI-47-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	H	OH
XXVI-47-5	p-F—Ph	H	H	CH ₂ Ph	Bz	H	F	H	OH
XXVI-47-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	F	H	OH
XXVI-47-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	H	OH
XXVI-47-8	p-F—Ph	*	H	*	Bz	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVI-48

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVI-48-1	p-Cl—Ph	H	H	H	Bz	H	F	H	OH
XXVI-48-2	p-Cl—Ph	H	H	CH ₃	Bz	H	F	H	OH

513

TABLE XXVI-48-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVI-48-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	Bz	H	F	H	OH
XXVI-48-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	H	OH
XXVI-48-5	p-Cl—Ph	H	H	CH ₂ Ph	Bz	H	F	H	OH
XXVI-48-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	F	H	OH
XXVI-48-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	H	OH
XXVI-48-8	p-Cl—Ph	*	H	*	Bz	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVI-49

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVI-49-1	p-Br—Ph	H	H	H	Bz	H	F	H	OH
XXVI-49-2	p-Br—Ph	H	H	CH ₃	Bz	H	F	H	OH
XXVI-49-3	p-Br—Ph	H	H	CH(CH ₃) ₂	Bz	H	F	H	OH
XXVI-49-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	H	OH
XXVI-49-5	p-Br—Ph	H	H	CH ₂ Ph	Bz	H	F	H	OH
XXVI-49-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	F	H	OH
XXVI-49-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	H	OH
XXVI-49-8	p-Br—Ph	*	H	*	Bz	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVI-50

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVI-50-1	p-I—Ph	H	H	H	Bz	H	F	H	OH
XXVI-50-2	p-I—Ph	H	H	CH ₃	Bz	H	F	H	OH
XXVI-50-3	p-I—Ph	H	H	CH(CH ₃) ₂	Bz	H	F	H	OH
XXVI-50-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	H	OH
XXVI-50-5	p-I—Ph	H	H	CH ₂ Ph	Bz	H	F	H	OH
XXVI-50-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	F	H	OH
XXVI-50-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	H	OH
XXVI-50-8	p-I—Ph	*	H	*	Bz	H	F	H	OH

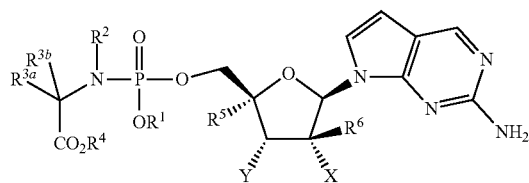
*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVII-1

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVII-1-1	CH ₃	H	H	H	CH ₃	H	F	F	OH
XXVII-1-2	CH ₃	H	H	CH ₃	CH ₃	H	F	F	OH

514

TABLE XXVII-1-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVII-1-3	CH ₃	H	H	CH(CH ₃) ₂	CH ₃	H	F	F	OH
XXVII-1-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	F	OH
XXVII-1-5	CH ₃	H	H	CH ₂ Ph	CH ₃	H	F	F	OH
XXVII-1-6	CH ₃	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	F	OH
XXVII-1-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	F	OH
XXVII-1-8	CH ₃	*	H	*	CH ₃	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVII-2

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVII-2-1	Et	H	H	H	CH ₃	H	F	F	OH
XXVII-2-2	Et	H	H	CH ₃	CH ₃	H	F	F	OH
XXVII-2-3	Et	H	H	CH(CH ₃) ₂	CH ₃	H	F	F	OH
XXVII-2-4	Et	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	F	OH
XXVII-2-5	Et	H	H	CH ₂ Ph	CH ₃	H	F	F	OH
XXVII-2-6	Et	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	F	OH
XXVII-2-7	Et	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	F	OH
XXVII-2-8	Et	*	H	*	CH ₃	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVII-3

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVII-3-1	ⁱ Pr	H	H	H	CH ₃	H	F	F	OH
XXVII-3-2	ⁱ Pr	H	H	CH ₃	CH ₃	H	F	F	OH
XXVII-3-3	ⁱ Pr	H	H	CH(CH ₃) ₂	CH ₃	H	F	F	OH
XXVII-3-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	F	OH
XXVII-3-5	ⁱ Pr	H	H	CH ₂ Ph	CH ₃	H	F	F	OH
XXVII-3-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	F	OH
XXVII-3-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	F	OH
XXVII-3-8	ⁱ Pr	*	H	*	CH ₃	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVII-4

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVII-4-1	^t Bu	H	H	H	CH ₃	H	F	F	OH
XXVII-4-2	^t Bu	H	H	CH ₃	CH ₃	H	F	F	OH
XXVII-4-3	^t Bu	H	H	CH(CH ₃) ₂	CH ₃	H	F	F	OH
XXVII-4-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	F	OH
XXVII-4-5	^t Bu	H	H	CH ₂ Ph	CH ₃	H	F	F	OH
XXVII-4-6	^t Bu	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	F	OH
XXVII-4-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	F	OH
XXVII-4-8	^t Bu	*	H	*	CH ₃	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVII-5

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVII-5-1	Ph	H	H	H	CH ₃	H	F	F	OH
XXVII-5-2	Ph	H	H	CH ₃	CH ₃	H	F	F	OH
XXVII-5-3	Ph	H	H	CH(CH ₃) ₂	CH ₃	H	F	F	OH
XXVII-5-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	F	OH
XXVII-5-5	Ph	H	H	CH ₂ Ph	CH ₃	H	F	F	OH
XXVII-5-6	Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	F	OH
XXVII-5-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	F	OH
XXVII-5-8	Ph	*	H	*	CH ₃	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

515

TABLE XXVII-6

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVII-6-1	p-Me—Ph	H	H	H	CH ₃	H	F	F	OH
XXVII-6-2	p-Me—Ph	H	H	CH ₃	CH ₃	H	F	F	OH
XXVII-6-3	p-Me—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	F	F	OH
XXVII-6-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	F	OH
XXVII-6-5	p-Me—Ph	H	H	CH ₂ Ph	CH ₃	H	F	F	OH
XXVII-6-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	F	OH
XXVII-6-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	F	OH
XXVII-6-8	p-Me—Ph	*	H	*	CH ₃	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVII-7

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVII-7-1	p-F—Ph	H	H	H	CH ₃	H	F	F	OH
XXVII-7-2	p-F—Ph	H	H	CH ₃	CH ₃	H	F	F	OH
XXVII-7-3	p-F—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	F	F	OH
XXVII-7-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	F	OH
XXVII-7-6	p-F—Ph	H	H	CH ₂ Ph	CH ₃	H	F	F	OH
XXVII-7-7	p-F—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	F	OH
XXVII-7-8	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	F	OH
XXVII-7-20	p-F—Ph	*	H	*	CH ₃	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVII-8

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVII-8-1	p-Cl—Ph	H	H	H	CH ₃	H	F	F	OH
XXVII-8-2	p-Cl—Ph	H	H	CH ₃	CH ₃	H	F	F	OH
XXVII-8-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	F	F	OH
XXVII-8-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	F	OH
XXVII-8-5	p-Cl—Ph	H	H	CH ₂ Ph	CH ₃	H	F	F	OH
XXVII-8-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	F	OH
XXVII-8-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	F	OH
XXVII-8-8	p-Cl—Ph	*	H	*	CH ₃	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVII-9

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVII-9-1	p-Br—Ph	H	H	H	CH ₃	H	F	F	OH
XXVII-9-2	p-Br—Ph	H	H	CH ₃	CH ₃	H	F	F	OH

516

TABLE XXVII-9-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
5 XXVII-9-3	p-Br—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	F	F	OH
XXVII-9-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	F	OH
10 XXVII-9-6	p-Br—Ph	H	H	CH ₂ Ph	CH ₃	H	F	F	OH
XXVII-9-7	p-Br—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	F	OH
15 XXVII-9-8	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	F	OH
XXVII-9-20	p-Br—Ph	*	H	*	CH ₃	H	F	F	OH

20 *R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVII-10

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
25 XXVII-10-1	p-I—Ph	H	H	H	CH ₃	H	F	F	OH
XXVII-10-2	p-I—Ph	H	H	CH ₃	CH ₃	H	F	F	OH
30 XXVII-10-3	p-I—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	F	F	OH
XXVII-10-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	F	OH
XXVII-10-5	p-I—Ph	H	H	CH ₂ Ph	CH ₃	H	F	F	OH
35 XXVII-10-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	F	OH
XXVII-10-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	F	OH
XXVII-10-8	p-I—Ph	*	H	*	CH ₃	H	F	F	OH

40 *R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVII-11

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
45 XXVII-11-1	CH ₃	H	H	H	Et	H	F	F	OH
XXVII-11-2	CH ₃	H	H	CH ₃	Et	H	F	F	OH
XXVII-11-3	CH ₃	H	H	CH(CH ₃) ₂	Et	H	F	F	OH
XXVII-11-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	F	OH
XXVII-11-5	CH ₃	H	H	CH ₂ Ph	Et	H	F	F	OH
50 XXVII-11-6	CH ₃	H	H	CH ₂ -indol-3-yl	Et	H	F	F	OH
XXVII-11-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	F	OH
XXVII-11-8	CH ₃	*	H	*	Et	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVII-12

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVII-12-1	Et	H	H	H	Et	H	F	F	OH
XXVII-12-2	Et	H	H	CH ₃	Et	H	F	F	OH
XXVII-12-3	Et	H	H	CH(CH ₃) ₂	Et	H	F	F	OH
XXVII-12-4	Et	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	F	OH
XXVII-12-5	Et	H	H	CH ₂ Ph	Et	H	F	F	OH
XXVII-12-6	Et	H	H	CH ₂ -indol-3-yl	Et	H	F	F	OH
XXVII-12-7	Et	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	F	OH
XXVII-12-8	Et	*	H	*	Et	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

517

TABLE XXVII-13

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVII-13-1	ⁱ Pr	H	H	H	Et	H	F	F	OH
XXVII-13-2	ⁱ Pr	H	H	CH ₃	Et	H	F	F	OH
XXVII-13-3	ⁱ Pr	H	H	CH(CH ₃) ₂	Et	H	F	F	OH
XXVII-13-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	F	OH
XXVII-13-5	ⁱ Pr	H	H	CH ₂ Ph	Et	H	F	F	OH
XXVII-13-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	Et	H	F	F	OH
XXVII-13-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	F	OH
XXVII-13-8	ⁱ Pr	*	H	*	Et	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVII-14

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVII-14-1	^t Bu	H	H	H	Et	H	F	F	OH
XXVII-14-2	^t Bu	H	H	CH ₃	Et	H	F	F	OH
XXVII-14-3	^t Bu	H	H	CH(CH ₃) ₂	Et	H	F	F	OH
XXVII-14-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	F	OH
XXVII-14-5	^t Bu	H	H	CH ₂ Ph	Et	H	F	F	OH
XXVII-14-6	^t Bu	H	H	CH ₂ -indol-3-yl	Et	H	F	F	OH
XXVII-14-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	F	OH
XXVII-14-8	^t Bu	*	H	*	Et	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVII-15

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVII-15-1	Ph	H	H	H	Et	H	F	F	OH
XXVII-15-2	Ph	H	H	CH ₃	Et	H	F	F	OH
XXVII-15-3	Ph	H	H	CH(CH ₃) ₂	Et	H	F	F	OH
XXVII-15-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	F	OH
XXVII-15-5	Ph	H	H	CH ₂ Ph	Et	H	F	F	OH
XXVII-15-6	Ph	H	H	CH ₂ -indol-3-yl	Et	H	F	F	OH
XXVII-15-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	F	OH
XXVII-15-8	Ph	*	H	*	Et	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVII-16

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVII-16-1	p-Me—Ph	H	H	H	Et	H	F	F	OH
XXVII-16-2	p-Me—Ph	H	H	CH ₃	Et	H	F	F	OH
XXVII-16-3	p-Me—Ph	H	H	CH(CH ₃) ₂	Et	H	F	F	OH
XXVII-16-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	F	OH
XXVII-16-5	p-Me—Ph	H	H	CH ₂ Ph	Et	H	F	F	OH
XXVII-16-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	Et	H	F	F	OH
XXVII-16-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	F	OH
XXVII-16-8	p-Me—Ph	*	H	*	Et	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVII-17

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVII-17-1	p-F—Ph	H	H	H	Et	H	F	F	OH
XXVII-17-2	p-F—Ph	H	H	CH ₃	Et	H	F	F	OH
XXVII-17-3	p-F—Ph	H	H	CH(CH ₃) ₂	Et	H	F	F	OH
XXVII-17-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	F	OH
XXVII-17-5	p-F—Ph	H	H	CH ₂ Ph	Et	H	F	F	OH

518

TABLE XXVII-17-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVII-17-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	Et	H	F	F	OH
XXVII-17-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	F	OH
XXVII-17-8	p-F—Ph	*	H	*	Et	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVII-18

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVII-18-1	p-Cl—Ph	H	H	H	Et	H	F	F	OH
XXVII-18-2	p-Cl—Ph	H	H	CH ₃	Et	H	F	F	OH
XXVII-18-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	Et	H	F	F	OH
XXVII-18-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	F	OH
XXVII-18-5	p-Cl—Ph	H	H	CH ₂ Ph	Et	H	F	F	OH
XXVII-18-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	Et	H	F	F	OH
XXVII-18-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	F	OH
XXVII-18-8	p-Cl—Ph	*	H	*	Et	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVII-19

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVII-19-1	p-Br—Ph	H	H	H	Et	H	F	F	OH
XXVII-19-2	p-Br—Ph	H	H	CH ₃	Et	H	F	F	OH
XXVII-19-3	p-Br—Ph	H	H	CH(CH ₃) ₂	Et	H	F	F	OH
XXVII-19-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	F	OH
XXVII-19-5	p-Br—Ph	H	H	CH ₂ Ph	Et	H	F	F	OH
XXVII-19-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	Et	H	F	F	OH
XXVII-19-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	F	OH
XXVII-19-8	p-Br—Ph	*	H	*	Et	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVII-20

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVII-20-1	p-I—Ph	H	H	H	Et	H	F	F	OH
XXVII-20-2	p-I—Ph	H	H	CH ₃	Et	H	F	F	OH
XXVII-20-3	p-I—Ph	H	H	CH(CH ₃) ₂	Et	H	F	F	OH
XXVII-20-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	F	OH
XXVII-20-5	p-I—Ph	H	H	CH ₂ Ph	Et	H	F	F	OH
XXVII-20-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	Et	H	F	F	OH
XXVII-20-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	F	OH
XXVII-20-8	p-I—Ph	*	H	*	Et	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVII-21

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVII-21-1	CH ₃	H	H	H	ⁱ Pr	H	F	F	OH
XXVII-21-2	CH ₃	H	H	CH ₃	ⁱ Pr	H	F	F	OH

519

TABLE XXVII-21-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVII-21-3	CH ₃	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH
XXVII-21-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH
XXVII-21-5	CH ₃	H	H	CH ₂ Ph	ⁱ Pr	H	F	F	OH
XXVII-21-6	CH ₃	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	F	OH
XXVII-21-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	F	OH
XXVII-21-8	CH ₃	*	H	*	ⁱ Pr	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVII-22

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVII-22-1	Et	H	H	H	ⁱ Pr	H	F	F	OH
XXVII-22-2	Et	H	H	CH ₃	ⁱ Pr	H	F	F	OH
XXVII-22-3	Et	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH
XXVII-22-4	Et	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH
XXVII-22-5	Et	H	H	CH ₂ Ph	ⁱ Pr	H	F	F	OH
XXVII-22-6	Et	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	F	OH
XXVII-22-7	Et	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	F	OH
XXVII-22-8	Et	*	H	*	ⁱ Pr	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVII-23

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVII-23-1	ⁱ Pr	H	H	H	ⁱ Pr	H	F	F	OH
XXVII-23-2	ⁱ Pr	H	H	CH ₃	ⁱ Pr	H	F	F	OH
XXVII-23-3	ⁱ Pr	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH
XXVII-23-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH
XXVII-23-5	ⁱ Pr	H	H	CH ₂ Ph	ⁱ Pr	H	F	F	OH
XXVII-23-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	F	OH
XXVII-23-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	F	OH
XXVII-23-8	ⁱ Pr	*	H	*	ⁱ Pr	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVII-24

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVII-24-1	^t Bu	H	H	H	ⁱ Pr	H	F	F	OH
XXVII-24-2	^t Bu	H	H	CH ₃	ⁱ Pr	H	F	F	OH
XXVII-24-3	^t Bu	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH
XXVII-24-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH
XXVII-24-5	^t Bu	H	H	CH ₂ Ph	ⁱ Pr	H	F	F	OH
XXVII-24-6	^t Bu	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	F	OH
XXVII-24-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	F	OH
XXVII-24-8	^t Bu	*	H	*	ⁱ Pr	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVII-25

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVII-25-1	Ph	H	H	H	ⁱ Pr	H	F	F	OH
XXVII-25-2	Ph	H	H	CH ₃	ⁱ Pr	H	F	F	OH
XXVII-25-3	Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH
XXVII-25-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH
XXVII-25-5	Ph	H	H	CH ₂ Ph	ⁱ Pr	H	F	F	OH
XXVII-25-6	Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	F	OH
XXVII-25-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	F	OH
XXVII-25-8	Ph	*	H	*	ⁱ Pr	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

520

TABLE XXVII-26

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
5 XXVII-26-1	p-Me-Ph	H	H	H	ⁱ Pr	H	F	F	OH
XXVII-26-2	p-Me-Ph	H	H	CH ₃	ⁱ Pr	H	F	F	OH
XXVII-26-3	p-Me-Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH
10 XXVII-26-4	p-Me-Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH
XXVII-26-5	p-Me-Ph	H	H	CH ₂ Ph	ⁱ Pr	H	F	F	OH
XXVII-26-6	p-Me-Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	F	OH
15 XXVII-26-7	p-Me-Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	F	OH
XXVII-26-8	p-Me-Ph	*	H	*	ⁱ Pr	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVII-27

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
25 XXVII-27-1	p-F-Ph	H	H	H	ⁱ Pr	H	F	F	OH
XXVII-27-2	p-F-Ph	H	H	CH ₃	ⁱ Pr	H	F	F	OH
XXVII-27-3	p-F-Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH
XXVII-27-4	p-F-Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH
30 XXVII-27-5	p-F-Ph	H	H	CH ₂ Ph	ⁱ Pr	H	F	F	OH
XXVII-27-6	p-F-Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	F	OH
XXVII-27-7	p-F-Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	F	OH
XXVII-27-8	p-F-Ph	*	H	*	ⁱ Pr	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVII-28

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
40 XXVII-28-1	p-Cl-Ph	H	H	H	ⁱ Pr	H	F	F	OH
XXVII-28-2	p-Cl-Ph	H	H	CH ₃	ⁱ Pr	H	F	F	OH
XXVII-28-3	p-Cl-Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH
45 XXVII-28-4	p-Cl-Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH
XXVII-28-5	p-Cl-Ph	H	H	CH ₂ Ph	ⁱ Pr	H	F	F	OH
XXVII-28-6	p-Cl-Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	F	OH
XXVII-28-7	p-Cl-Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	F	OH
50 XXVII-28-8	p-Cl-Ph	*	H	*	ⁱ Pr	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVII-29

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
60 XXVII-29-1	p-Br-Ph	H	H	H	ⁱ Pr	H	F	F	OH
XXVII-29-2	p-Br-Ph	H	H	CH ₃	ⁱ Pr	H	F	F	OH
XXVII-29-3	p-Br-Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH
XXVII-29-4	p-Br-Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH
65 XXVII-29-5	p-Br-Ph	H	H	CH ₂ Ph	ⁱ Pr	H	F	F	OH

521

TABLE XXVII-29-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVII-29-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	F	OH
XXVII-29-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	F	OH
XXVII-29-8	p-Br—Ph	*	H	*	ⁱ Pr	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVII-30

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVII-30-1	p-I—Ph	H	H	H	ⁱ Pr	H	F	F	OH
XXVII-30-2	p-I—Ph	H	H	CH ₃	ⁱ Pr	H	F	F	OH
XXVII-30-3	p-I—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH
XXVII-30-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH
XXVII-30-5	p-I—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	F	F	OH
XXVII-30-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	F	OH
XXVII-30-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	F	OH
XXVII-30-8	p-I—Ph	*	H	*	ⁱ Pr	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVII-31

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVII-31-1	CH ₃	H	H	H	"Bu	H	F	F	OH
XXVII-31-2	CH ₃	H	H	CH ₃	"Bu	H	F	F	OH
XXVII-31-3	CH ₃	H	H	CH(CH ₃) ₂	"Bu	H	F	F	OH
XXVII-31-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	F	OH
XXVII-31-5	CH ₃	H	H	CH ₂ Ph	"Bu	H	F	F	OH
XXVII-31-6	CH ₃	H	H	CH ₂ -indol-3-yl	"Bu	H	F	F	OH
XXVII-31-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	F	OH
XXVII-31-8	CH ₃	*	H	*	"Bu	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVII-32

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVII-32-1	Et	H	H	H	"Bu	H	F	F	OH
XXVII-32-2	Et	H	H	CH ₃	"Bu	H	F	F	OH
XXVII-32-3	Et	H	H	CH(CH ₃) ₂	"Bu	H	F	F	OH
XXVII-32-4	Et	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	F	OH
XXVII-32-5	Et	H	H	CH ₂ Ph	"Bu	H	F	F	OH
XXVII-32-6	Et	H	H	CH ₂ -indol-3-yl	"Bu	H	F	F	OH
XXVII-32-7	Et	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	F	OH
XXVII-32-8	Et	*	H	*	"Bu	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVII-33

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVII-33-1	ⁱ Pr	H	H	H	"Bu	H	F	F	OH
XXVII-33-2	ⁱ Pr	H	H	CH ₃	"Bu	H	F	F	OH
XXVII-33-3	ⁱ Pr	H	H	CH(CH ₃) ₂	"Bu	H	F	F	OH
XXVII-33-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	F	OH
XXVII-33-5	ⁱ Pr	H	H	CH ₂ Ph	"Bu	H	F	F	OH
XXVII-33-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	"Bu	H	F	F	OH
XXVII-33-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	F	OH
XXVII-33-8	ⁱ Pr	*	H	*	"Bu	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

522

TABLE XXVII-34

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVII-34-1	^t Bu	H	H	H	"Bu	H	F	F	OH
XXVII-34-2	^t Bu	H	H	CH ₃	"Bu	H	F	F	OH
XXVII-34-3	^t Bu	H	H	CH(CH ₃) ₂	"Bu	H	F	F	OH
XXVII-34-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	F	OH
XXVII-34-5	^t Bu	H	H	CH ₂ Ph	"Bu	H	F	F	OH
XXVII-34-6	^t Bu	H	H	CH ₂ -indol-3-yl	"Bu	H	F	F	OH
XXVII-34-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	F	OH
XXVII-34-8	^t Bu	*	H	*	"Bu	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

15

TABLE XXVII-35

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVII-35-1	Ph	H	H	H	"Bu	H	F	F	OH
XXVII-35-2	Ph	H	H	CH ₃	"Bu	H	F	F	OH
XXVII-35-3	Ph	H	H	CH(CH ₃) ₂	"Bu	H	F	F	OH
XXVII-35-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	F	OH
XXVII-35-5	Ph	H	H	CH ₂ Ph	"Bu	H	F	F	OH
XXVII-35-6	Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	F	F	OH
XXVII-35-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	F	OH
XXVII-35-8	Ph	*	H	*	"Bu	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVII-36

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVII-36-1	p-Me—Ph	H	H	H	"Bu	H	F	F	OH
XXVII-36-2	p-Me—Ph	H	H	CH ₃	"Bu	H	F	F	OH
XXVII-36-3	p-Me—Ph	H	H	CH(CH ₃) ₂	"Bu	H	F	F	OH
XXVII-36-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	F	OH
XXVII-36-5	p-Me—Ph	H	H	CH ₂ Ph	"Bu	H	F	F	OH
XXVII-36-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	F	F	OH
XXVII-36-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	F	OH
XXVII-36-8	p-Me—Ph	*	H	*	"Bu	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVII-37

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVII-37-1	p-F—Ph	H	H	H	"Bu	H	F	F	OH
XXVII-37-2	p-F—Ph	H	H	CH ₃	"Bu	H	F	F	OH
XXVII-37-3	p-F—Ph	H	H	CH(CH ₃) ₂	"Bu	H	F	F	OH
XXVII-37-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	F	OH
XXVII-37-5	p-F—Ph	H	H	CH ₂ Ph	"Bu	H	F	F	OH
XXVII-37-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	F	F	OH
XXVII-37-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	F	OH
XXVII-37-8	p-F—Ph	*	H	*	"Bu	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVII-38

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVII-38-1	p-Cl—Ph	H	H	H	"Bu	H	F	F	OH
XXVII-38-2	p-Cl—Ph	H	H	CH ₃	"Bu	H	F	F	OH

523

TABLE XXVII-38-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVII-38-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	"Bu	H	F	F	OH
XXVII-38-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	F	OH
XXVII-38-5	p-Cl—Ph	H	H	CH ₂ Ph	"Bu	H	F	F	OH
XXVII-38-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	F	F	OH
XXVII-38-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	F	OH
XXVII-38-8	p-Cl—Ph	*	H	*	"Bu	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVII-39

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVII-39-1	p-Br—Ph	H	H	H	"Bu	H	F	F	OH
XXVII-39-2	p-Br—Ph	H	H	CH ₃	"Bu	H	F	F	OH
XXVII-39-3	p-Br—Ph	H	H	CH(CH ₃) ₂	"Bu	H	F	F	OH
XXVII-39-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	F	OH
XXVII-39-5	p-Br—Ph	H	H	CH ₂ Ph	"Bu	H	F	F	OH
XXVII-39-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	F	F	OH
XXVII-39-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	F	OH
XXVII-39-8	p-Br—Ph	*	H	*	"Bu	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVII-40

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVII-40-1	p-I—Ph	H	H	H	"Bu	H	F	F	OH
XXVII-40-2	p-I—Ph	H	H	CH ₃	"Bu	H	F	F	OH
XXVII-40-3	p-I—Ph	H	H	CH(CH ₃) ₂	"Bu	H	F	F	OH
XXVII-40-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	F	OH
XXVII-40-5	p-I—Ph	H	H	CH ₂ Ph	"Bu	H	F	F	OH
XXVII-40-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	F	F	OH
XXVII-40-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	F	OH
XXVII-40-8	p-I—Ph	*	H	*	"Bu	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVII-41

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVII-41-1	CH ₃	H	H	H	Bz	H	F	F	OH
XXVII-41-2	CH ₃	H	H	CH ₃	Bz	H	F	F	OH
XXVII-41-3	CH ₃	H	H	CH(CH ₃) ₂	Bz	H	F	F	OH
XXVII-41-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	F	OH
XXVII-41-5	CH ₃	H	H	CH ₂ Ph	Bz	H	F	F	OH
XXVII-41-6	CH ₃	H	H	CH ₂ -indol-3-yl	Bz	H	F	F	OH
XXVII-41-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	F	OH
XXVII-41-8	CH ₃	*	H	*	Bz	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

524

TABLE XXVII-42

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVII-42-1	Et	H	H	H	Bz	H	F	F	OH
XXVII-42-2	Et	H	H	CH ₃	Bz	H	F	F	OH
XXVII-42-3	Et	H	H	CH(CH ₃) ₂	Bz	H	F	F	OH
XXVII-42-4	Et	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	F	OH
XXVII-42-5	Et	H	H	CH ₂ Ph	Bz	H	F	F	OH
XXVII-42-6	Et	H	H	CH ₂ -indol-3-yl	Bz	H	F	F	OH
XXVII-42-7	Et	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	F	OH
XXVII-42-8	Et	*	H	*	Bz	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVII-43

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVII-43-1	^t Pr	H	H	H	Bz	H	F	F	OH
XXVII-43-2	^t Pr	H	H	CH ₃	Bz	H	F	F	OH
XXVII-43-3	^t Pr	H	H	CH(CH ₃) ₂	Bz	H	F	F	OH
XXVII-43-4	^t Pr	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	F	OH
XXVII-43-5	^t Pr	H	H	CH ₂ Ph	Bz	H	F	F	OH
XXVII-43-6	^t Pr	H	H	CH ₂ -indol-3-yl	Bz	H	F	F	OH
XXVII-43-7	^t Pr	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	F	OH
XXVII-43-8	^t Pr	*	H	*	Bz	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVII-44

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVII-44-1	^t Bu	H	H	H	Bz	H	F	F	OH
XXVII-44-2	^t Bu	H	H	CH ₃	Bz	H	F	F	OH
XXVII-44-3	^t Bu	H	H	CH(CH ₃) ₂	Bz	H	F	F	OH
XXVII-44-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	F	OH
XXVII-44-5	^t Bu	H	H	CH ₂ Ph	Bz	H	F	F	OH
XXVII-44-6	^t Bu	H	H	CH ₂ -indol-3-yl	Bz	H	F	F	OH
XXVII-44-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	F	OH
XXVII-44-8	^t Bu	*	H	*	Bz	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVII-45

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVII-45-1	Ph	H	H	H	Bz	H	F	F	OH
XXVII-45-2	Ph	H	H	CH ₃	Bz	H	F	F	OH
XXVII-45-3	Ph	H	H	CH(CH ₃) ₂	Bz	H	F	F	OH
XXVII-45-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	F	OH
XXVII-45-5	Ph	H	H	CH ₂ Ph	Bz	H	F	F	OH
XXVII-45-6	Ph	H	H	CH ₂ -indol-3-yl	Bz	H	F	F	OH
XXVII-45-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	F	OH
XXVII-45-8	Ph	*	H	*	Bz	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVII-46

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVII-46-1	p-Me—Ph	H	H	H	Bz	H	F	F	OH
XXVII-46-2	p-Me—Ph	H	H	CH ₃	Bz	H	F	F	OH
XXVII-46-3	p-Me—Ph	H	H	CH(CH ₃) ₂	Bz	H	F	F	OH
XXVII-46-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	F	OH

525

TABLE XXVII-46-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVII-46-5	p-Me—Ph	H	H	CH ₂ Ph	Bz	H	F	F	OH
XXVII-46-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	F	F	OH
XXVII-46-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	F	OH
XXVII-46-8	p-Me—Ph	*	H	*	Bz	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVII-47

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVII-47-1	p-F—Ph	H	H	H	Bz	H	F	F	OH
XXVII-47-2	p-F—Ph	H	H	CH ₃	Bz	H	F	F	OH
XXVII-47-3	p-F—Ph	H	H	CH(CH ₃) ₂	Bz	H	F	F	OH
XXVII-47-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	F	OH
XXVII-47-5	p-F—Ph	H	H	CH ₂ Ph	Bz	H	F	F	OH
XXVII-47-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	F	F	OH
XXVII-47-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	F	OH
XXVII-47-8	p-F—Ph	*	H	*	Bz	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVII-48

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVII-48-1	p-Cl—Ph	H	H	H	Bz	H	F	F	OH
XXVII-48-2	p-Cl—Ph	H	H	CH ₃	Bz	H	F	F	OH
XXVII-48-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	Bz	H	F	F	OH
XXVII-48-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	F	OH
XXVII-48-5	p-Cl—Ph	H	H	CH ₂ Ph	Bz	H	F	F	OH
XXVII-48-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	F	F	OH
XXVII-48-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	F	OH
XXVII-48-8	p-Cl—Ph	*	H	*	Bz	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVII-49

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVII-49-1	p-Br—Ph	H	H	H	Bz	H	F	F	OH
XXVII-49-2	p-Br—Ph	H	H	CH ₃	Bz	H	F	F	OH
XXVII-49-3	p-Br—Ph	H	H	CH(CH ₃) ₂	Bz	H	F	F	OH
XXVII-49-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	F	OH
XXVII-49-5	p-Br—Ph	H	H	CH ₂ Ph	Bz	H	F	F	OH
XXVII-49-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	F	F	OH
XXVII-49-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	F	OH
XXVII-49-8	p-Br—Ph	*	H	*	Bz	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

526

TABLE XXVII-50

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVII-50-1	p-I—Ph	H	H	H	Bz	H	F	F	OH
XXVII-50-2	p-I—Ph	H	H	CH ₃	Bz	H	F	F	OH
XXVII-50-3	p-I—Ph	H	H	CH(CH ₃) ₂	Bz	H	F	F	OH
XXVII-50-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	F	OH
XXVII-50-5	p-I—Ph	H	H	CH ₂ Ph	Bz	H	F	F	OH
XXVII-50-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	F	F	OH
XXVII-50-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	F	OH
XXVII-50-8	p-I—Ph	*	H	*	Bz	H	F	F	OH

15 *R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVII-47

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVII-47-1	p-F—Ph	H	H	H	Bz	H	F	F	OH
XXVII-47-2	p-F—Ph	H	H	CH ₃	Bz	H	F	F	OH
XXVII-47-3	p-F—Ph	H	H	CH(CH ₃) ₂	Bz	H	F	F	OH
XXVII-47-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	F	OH
XXVII-47-5	p-F—Ph	H	H	CH ₂ Ph	Bz	H	F	F	OH
XXVII-47-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	F	F	OH
XXVII-47-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	F	OH
XXVII-47-8	p-F—Ph	*	H	*	Bz	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVII-48

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVII-48-1	p-Cl—Ph	H	H	H	Bz	H	F	F	OH
XXVII-48-2	p-Cl—Ph	H	H	CH ₃	Bz	H	F	F	OH
XXVII-48-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	Bz	H	F	F	OH
XXVII-48-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	F	OH
XXVII-48-5	p-Cl—Ph	H	H	CH ₂ Ph	Bz	H	F	F	OH
XXVII-48-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	F	F	OH
XXVII-48-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	F	OH
XXVII-48-8	p-Cl—Ph	*	H	*	Bz	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVII-49

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVII-49-1	p-Br—Ph	H	H	H	Bz	H	F	F	OH
XXVII-49-2	p-Br—Ph	H	H	CH ₃	Bz	H	F	F	OH
XXVII-49-3	p-Br—Ph	H	H	CH(CH ₃) ₂	Bz	H	F	F	OH
XXVII-49-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	F	OH
XXVII-49-5	p-Br—Ph	H	H	CH ₂ Ph	Bz	H	F	F	OH
XXVII-49-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	F	F	OH
XXVII-49-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	F	OH
XXVII-49-8	p-Br—Ph	*	H	*	Bz	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVIII-1

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVIII-1-1	CH ₃	H	H	H	CH ₃	H	H	F	OH
XXVIII-1-2	CH ₃	H	H	CH ₃	CH ₃	H	H	F	OH
XXVIII-1-3	CH ₃	H	H	CH(CH ₃) ₂	CH ₃	H	H	F	OH
XXVIII-1-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	H	F	OH
XXVIII-1-5	CH ₃	H	H	CH ₂ Ph	CH ₃	H	H	F	OH
XXVIII-1-6	CH ₃	H	H	CH ₂ -indol-3-yl	CH ₃	H	H	F	OH
XXVIII-1-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	H	F	OH
XXVIII-1-8	CH ₃	*	H	*	CH ₃	H	H	F	OH

40 *R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

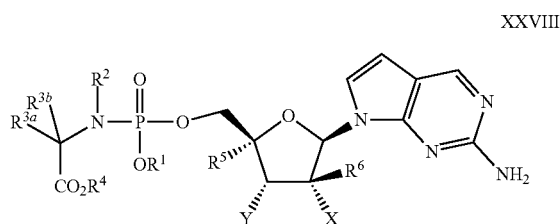
TABLE XXVIII-2

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVIII-2-1	Et	H	H	H	CH ₃	H	H	F	OH
XXVIII-2-2	Et	H	H	CH ₃	CH ₃	H	H	F	OH
XXVIII-2-3	Et	H	H	CH(CH ₃) ₂	CH ₃	H	H	F	OH
XXVIII-2-4	Et	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	H	F	OH
XXVIII-2-5	Et	H	H	CH ₂ Ph	CH ₃	H	H	F	OH
XXVIII-2-6	Et	H	H	CH ₂ -indol-3-yl	CH ₃	H	H	F	OH
XXVIII-2-7	Et	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	H	F	OH
XXVIII-2-8	Et	*	H	*	CH ₃	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVIII-3

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVIII-3-1	^t Pr	H	H	H	CH ₃	H	H	F	OH
XXVIII-3-2	^t Pr	H	H	CH ₃	CH ₃	H	H	F	OH
XXVIII-3-3	^t Pr	H	H	CH(CH ₃) ₂	CH ₃	H	H	F	OH
XXVIII-3-4	^t Pr	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	H	F	OH
XXVIII-3-5	^t Pr	H	H	CH ₂ Ph	CH ₃	H	H	F	OH
XXVIII-3-6	^t Pr	H	H	CH ₂ -indol-3-yl	CH ₃	H	H	F	OH
XXVIII-3-7	^t Pr	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	H	F	OH
XXVIII-3-8	^t Pr	*	H	*	CH ₃	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

527

TABLE XXVIII-4

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVIII-4-1	^t Bu	H	H	H	CH ₃	H	H	F	OH
XXVIII-4-2	^t Bu	H	H	CH ₃	CH ₃	H	H	F	OH
XXVIII-4-3	^t Bu	H	H	CH(CH ₃) ₂	CH ₃	H	H	F	OH
XXVIII-4-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	H	F	OH
XXVIII-4-5	^t Bu	H	H	CH ₂ Ph	CH ₃	H	H	F	OH
XXVIII-4-6	^t Bu	H	H	CH ₂ -indol-3-yl	CH ₃	H	H	F	OH
XXVIII-4-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	H	F	OH
XXVIII-4-8	^t Bu	*	H	*	CH ₃	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVIII-5

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVIII-5-1	Ph	H	H	H	CH ₃	H	H	F	OH
XXVIII-5-2	Ph	H	H	CH ₃	CH ₃	H	H	F	OH
XXVIII-5-3	Ph	H	H	CH(CH ₃) ₂	CH ₃	H	H	F	OH
XXVIII-5-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	H	F	OH
XXVIII-5-5	Ph	H	H	CH ₂ Ph	CH ₃	H	H	F	OH
XXVIII-5-6	Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	H	F	OH
XXVIII-5-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	H	F	OH
XXVIII-5-8	Ph	*	H	*	CH ₃	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVIII-6

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVIII-6-1	p-Me—Ph	H	H	H	CH ₃	H	H	F	OH
XXVIII-6-2	p-Me—Ph	H	H	CH ₃	CH ₃	H	H	F	OH
XXVIII-6-3	p-Me—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	H	F	OH
XXVIII-6-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	H	F	OH
XXVIII-6-5	p-Me—Ph	H	H	CH ₂ Ph	CH ₃	H	H	F	OH
XXVIII-6-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	H	F	OH
XXVIII-6-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	H	F	OH
XXVIII-6-8	p-Me—Ph	*	H	*	CH ₃	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVIII-7

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVIII-7-1	p-F—Ph	H	H	H	CH ₃	H	H	F	OH
XXVIII-7-2	p-F—Ph	H	H	CH ₃	CH ₃	H	H	F	OH
XXVIII-7-3	p-F—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	H	F	OH
XXVIII-7-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	H	F	OH
XXVIII-7-6	p-F—Ph	H	H	CH ₂ Ph	CH ₃	H	H	F	OH
XXVIII-7-7	p-F—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	H	F	OH
XXVIII-7-8	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	H	F	OH
XXVIII-7-20	p-F—Ph	*	H	*	CH ₃	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

528

TABLE XXVIII-8

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVIII-8-1	p-Cl—Ph	H	H	H	CH ₃	H	H	F	OH
XXVIII-8-2	p-Cl—Ph	H	H	CH ₃	CH ₃	H	H	F	OH
XXVIII-8-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	H	F	OH
XXVIII-8-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	H	F	OH
XXVIII-8-5	p-Cl—Ph	H	H	CH ₂ Ph	CH ₃	H	H	F	OH
XXVIII-8-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	H	F	OH
XXVIII-8-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	H	F	OH
XXVIII-8-8	p-Cl—Ph	*	H	*	CH ₃	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVIII-9

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVIII-9-1	p-Br—Ph	H	H	H	CH ₃	H	H	F	OH
XXVIII-9-2	p-Br—Ph	H	H	CH ₃	CH ₃	H	H	F	OH
XXVIII-9-3	p-Br—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	H	F	OH
XXVIII-9-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	H	F	OH
XXVIII-9-6	p-Br—Ph	H	H	CH ₂ Ph	CH ₃	H	H	F	OH
XXVIII-9-7	p-Br—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	H	F	OH
XXVIII-9-8	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	H	F	OH
XXVIII-9-20	p-Br—Ph	*	H	*	CH ₃	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVIII-10

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVIII-10-1	p-I—Ph	H	H	H	CH ₃	H	H	F	OH
XXVIII-10-2	p-I—Ph	H	H	CH ₃	CH ₃	H	H	F	OH
XXVIII-10-3	p-I—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	H	F	OH
XXVIII-10-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	H	F	OH
XXVIII-10-5	p-I—Ph	H	H	CH ₂ Ph	CH ₃	H	H	F	OH
XXVIII-10-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	H	F	OH
XXVIII-10-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	H	F	OH
XXVIII-10-8	p-I—Ph	*	H	*	CH ₃	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVIII-11

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVIII-11-1	CH ₃	H	H	H	Et	H	H	F	OH
XXVIII-11-2	CH ₃	H	H	CH ₃	Et	H	H	F	OH
XXVIII-11-3	CH ₃	H	H	CH(CH ₃) ₂	Et	H	H	F	OH
XXVIII-11-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	Et	H	H	F	OH
XXVIII-11-5	CH ₃	H	H	CH ₂ Ph	Et	H	H	F	OH

529

TABLE XXVIII-11-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVIII-11-6	CH ₃	H	H	CH ₂ -indol-3-yl	Et	H	H	F	OH
XXVIII-11-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	Et	H	H	F	OH
XXVIII-11-8	CH ₃	*	H	*	Et	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVIII-12

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVIII-12-1	Et	H	H	H	Et	H	H	F	OH
XXVIII-12-2	Et	H	H	CH ₃	Et	H	H	F	OH
XXVIII-12-3	Et	H	H	CH(CH ₃) ₂	Et	H	H	F	OH
XXVIII-12-4	Et	H	H	CH ₂ CH(CH ₃) ₂	Et	H	H	F	OH
XXVIII-12-5	Et	H	H	CH ₂ Ph	Et	H	H	F	OH
XXVIII-12-6	Et	H	H	CH ₂ -indol-3-yl	Et	H	H	F	OH
XXVIII-12-7	Et	H	H	CH ₂ CH ₂ SCH ₃	Et	H	H	F	OH
XXVIII-12-8	Et	*	H	*	Et	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVIII-13

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVIII-13-1	^t Pr	H	H	H	Et	H	H	F	OH
XXVIII-13-2	^t Pr	H	H	CH ₃	Et	H	H	F	OH
XXVIII-13-3	^t Pr	H	H	CH(CH ₃) ₂	Et	H	H	F	OH
XXVIII-13-4	^t Pr	H	H	CH ₂ CH(CH ₃) ₂	Et	H	H	F	OH
XXVIII-13-5	^t Pr	H	H	CH ₂ Ph	Et	H	H	F	OH
XXVIII-13-6	^t Pr	H	H	CH ₂ -indol-3-yl	Et	H	H	F	OH
XXVIII-13-7	^t Pr	H	H	CH ₂ CH ₂ SCH ₃	Et	H	H	F	OH
XXVIII-13-8	^t Pr	*	H	*	Et	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVIII-14

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVIII-14-1	^t Bu	H	H	H	Et	H	H	F	OH
XXVIII-14-2	^t Bu	H	H	CH ₃	Et	H	H	F	OH
XXVIII-14-3	^t Bu	H	H	CH(CH ₃) ₂	Et	H	H	F	OH
XXVIII-14-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	Et	H	H	F	OH
XXVIII-14-5	^t Bu	H	H	CH ₂ Ph	Et	H	H	F	OH
XXVIII-14-6	^t Bu	H	H	CH ₂ -indol-3-yl	Et	H	H	F	OH
XXVIII-14-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	Et	H	H	F	OH
XXVIII-14-8	^t Bu	*	H	*	Et	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVIII-15

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVIII-15-1	Ph	H	H	H	Et	H	H	F	OH
XXVIII-15-2	Ph	H	H	CH ₃	Et	H	H	F	OH
XXVIII-15-3	Ph	H	H	CH(CH ₃) ₂	Et	H	H	F	OH
XXVIII-15-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	H	F	OH
XXVIII-15-5	Ph	H	H	CH ₂ Ph	Et	H	H	F	OH
XXVIII-15-6	Ph	H	H	CH ₂ -indol-3-yl	Et	H	H	F	OH
XXVIII-15-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	H	F	OH
XXVIII-15-8	Ph	*	H	*	Et	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

530

TABLE XXVIII-16

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
5 XXVIII-16-1	p-Me-Ph	H	H	H	Et	H	H	F	OH
XXVIII-16-2	p-Me-Ph	H	H	CH ₃	Et	H	H	F	OH
XXVIII-16-3	p-Me-Ph	H	H	CH(CH ₃) ₂	Et	H	H	F	OH
10 XXVIII-16-4	p-Me-Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	H	F	OH
XXVIII-16-5	p-Me-Ph	H	H	CH ₂ Ph	Et	H	H	F	OH
XXVIII-16-6	p-Me-Ph	H	H	CH ₂ -indol-3-yl	Et	H	H	F	OH
15 XXVIII-16-7	p-Me-Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	H	F	OH
XXVIII-16-8	p-Me-Ph	*	H	*	Et	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVIII-17

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
25 XXVIII-17-1	p-F-Ph	H	H	H	Et	H	H	F	OH
XXVIII-17-2	p-F-Ph	H	H	CH ₃	Et	H	H	F	OH
XXVIII-17-3	p-F-Ph	H	H	CH(CH ₃) ₂	Et	H	H	F	OH
XXVIII-17-4	p-F-Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	H	F	OH
30 XXVIII-17-5	p-F-Ph	H	H	CH ₂ Ph	Et	H	H	F	OH
XXVIII-17-6	p-F-Ph	H	H	CH ₂ -indol-3-yl	Et	H	H	F	OH
XXVIII-17-7	p-F-Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	H	F	OH
XXVIII-17-8	p-F-Ph	*	H	*	Et	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVIII-18

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
40 XXVIII-18-1	p-Cl-Ph	H	H	H	Et	H	H	F	OH
XXVIII-18-2	p-Cl-Ph	H	H	CH ₃	Et	H	H	F	OH
XXVIII-18-3	p-Cl-Ph	H	H	CH(CH ₃) ₂	Et	H	H	F	OH
45 XXVIII-18-4	p-Cl-Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	H	F	OH
XXVIII-18-5	p-Cl-Ph	H	H	CH ₂ Ph	Et	H	H	F	OH
XXVIII-18-6	p-Cl-Ph	H	H	CH ₂ -indol-3-yl	Et	H	H	F	OH
50 XXVIII-18-7	p-Cl-Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	H	F	OH
XXVIII-18-8	p-Cl-Ph	*	H	*	Et	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVIII-19

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVIII-19-1	p-Br-Ph	H	H	H	Et	H	H	F	OH
60 XXVIII-19-2	p-Br-Ph	H	H	CH ₃	Et	H	H	F	OH
XXVIII-19-3	p-Br-Ph	H	H	CH(CH ₃) ₂	Et	H	H	F	OH
XXVIII-19-4	p-Br-Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	H	F	OH
65 XXVIII-19-5	p-Br-Ph	H	H	CH ₂ Ph	Et	H	H	F	OH

531

TABLE XXVIII-19-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVIII-19-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	Et	H	H	F	OH
XXVIII-19-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	H	F	OH
XXVIII-19-8	p-Br—Ph	*	H	*	Et	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVIII-20

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVIII-20-1	p-I—Ph	H	H	H	Et	H	H	F	OH
XXVIII-20-2	p-I—Ph	H	H	CH ₃	Et	H	H	F	OH
XXVIII-20-3	p-I—Ph	H	H	CH(CH ₃) ₂	Et	H	H	F	OH
XXVIII-20-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	H	F	OH
XXVIII-20-5	p-I—Ph	H	H	CH ₂ Ph	Et	H	H	F	OH
XXVIII-20-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	Et	H	H	F	OH
XXVIII-20-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	H	F	OH
XXVIII-20-8	p-I—Ph	*	H	*	Et	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVIII-21

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVIII-21-1	CH ₃	H	H	H	ⁱ Pr	H	H	F	OH
XXVIII-21-2	CH ₃	H	H	CH ₃	ⁱ Pr	H	H	F	OH
XXVIII-21-3	CH ₃	H	H	CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH
XXVIII-21-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH
XXVIII-21-5	CH ₃	H	H	CH ₂ Ph	ⁱ Pr	H	H	F	OH
XXVIII-21-6	CH ₃	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	H	F	OH
XXVIII-21-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	H	F	OH
XXVIII-21-8	CH ₃	*	H	*	ⁱ Pr	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVIII-22

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVIII-22-1	Et	H	H	H	ⁱ Pr	H	H	F	OH
XXVIII-22-2	Et	H	H	CH ₃	ⁱ Pr	H	H	F	OH
XXVIII-22-3	Et	H	H	CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH
XXVIII-22-4	Et	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH
XXVIII-22-5	Et	H	H	CH ₂ Ph	ⁱ Pr	H	H	F	OH
XXVIII-22-6	Et	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	H	F	OH
XXVIII-22-7	Et	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	H	F	OH
XXVIII-22-8	Et	*	H	*	ⁱ Pr	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVIII-23

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVIII-23-1	ⁱ Pr	H	H	H	ⁱ Pr	H	H	F	OH
XXVIII-23-2	ⁱ Pr	H	H	CH ₃	ⁱ Pr	H	H	F	OH
XXVIII-23-3	ⁱ Pr	H	H	CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH
XXVIII-23-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH
XXVIII-23-5	ⁱ Pr	H	H	CH ₂ Ph	ⁱ Pr	H	H	F	OH
XXVIII-23-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	H	F	OH
XXVIII-23-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	H	F	OH
XXVIII-23-8	ⁱ Pr	*	H	*	ⁱ Pr	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

532

TABLE XXVIII-24

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVIII-24-1	^t Bu	H	H	H	ⁱ Pr	H	H	F	OH
XXVIII-24-2	^t Bu	H	H	CH ₃	ⁱ Pr	H	H	F	OH
XXVIII-24-3	^t Bu	H	H	CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH
XXVIII-24-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH
XXVIII-24-5	^t Bu	H	H	CH ₂ Ph	ⁱ Pr	H	H	F	OH
XXVIII-24-6	^t Bu	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	H	F	OH
XXVIII-24-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	H	F	OH
XXVIII-24-8	^t Bu	*	H	*	ⁱ Pr	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

15

TABLE XXVIII-25

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVIII-25-1	Ph	H	H	H	ⁱ Pr	H	H	F	OH
XXVIII-25-2	Ph	H	H	CH ₃	ⁱ Pr	H	H	F	OH
XXVIII-25-3	Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH
XXVIII-25-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH
XXVIII-25-5	Ph	H	H	CH ₂ Ph	ⁱ Pr	H	H	F	OH
XXVIII-25-6	Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	H	F	OH
XXVIII-25-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	H	F	OH
XXVIII-25-8	Ph	*	H	*	ⁱ Pr	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVIII-26

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVIII-26-1	p-Me—Ph	H	H	H	ⁱ Pr	H	H	F	OH
XXVIII-26-2	p-Me—Ph	H	H	CH ₃	ⁱ Pr	H	H	F	OH
XXVIII-26-3	p-Me—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH
XXVIII-26-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH
XXVIII-26-5	p-Me—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	H	F	OH
XXVIII-26-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	H	F	OH
XXVIII-26-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	H	F	OH
XXVIII-26-8	p-Me—Ph	*	H	*	ⁱ Pr	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVIII-27

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVIII-27-1	p-F—Ph	H	H	H	ⁱ Pr	H	H	F	OH
XXVIII-27-2	p-F—Ph	H	H	CH ₃	ⁱ Pr	H	H	F	OH
XXVIII-27-3	p-F—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH
XXVIII-27-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH
XXVIII-27-5	p-F—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	H	F	OH
XXVIII-27-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	H	F	OH
XXVIII-27-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	H	F	OH
XXVIII-27-8	p-F—Ph	*	H	*	ⁱ Pr	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVIII-28

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVIII-28-1	p-Cl—Ph	H	H	H	ⁱ Pr	H	H	F	OH
XXVIII-28-2	p-Cl—Ph	H	H	CH ₃	ⁱ Pr	H	H	F	OH

533

TABLE XXVIII-28-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVIII-28-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH
XXVIII-28-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH
XXVIII-28-5	p-Cl—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	H	F	OH
XXVIII-28-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	H	F	OH
XXVIII-28-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	H	F	OH
XXVIII-28-8	p-Cl—Ph	*	H	*	ⁱ Pr	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVIII-29

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVIII-29-1	p-Br—Ph	H	H	H	ⁱ Pr	H	H	F	OH
XXVIII-29-2	p-Br—Ph	H	H	CH ₃	ⁱ Pr	H	H	F	OH
XXVIII-29-3	p-Br—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH
XXVIII-29-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH
XXVIII-29-5	p-Br—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	H	F	OH
XXVIII-29-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	H	F	OH
XXVIII-29-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	H	F	OH
XXVIII-29-8	p-Br—Ph	*	H	*	ⁱ Pr	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVIII-30

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVIII-30-1	p-I—Ph	H	H	H	ⁱ Pr	H	H	F	OH
XXVIII-30-2	p-I—Ph	H	H	CH ₃	ⁱ Pr	H	H	F	OH
XXVIII-30-3	p-I—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH
XXVIII-30-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH
XXVIII-30-5	p-I—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	H	F	OH
XXVIII-30-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	H	F	OH
XXVIII-30-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	H	F	OH
XXVIII-30-8	p-I—Ph	*	H	*	ⁱ Pr	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVIII-31

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVIII-31-1	CH ₃	H	H	H	"Bu	H	H	F	OH
XXVIII-31-2	CH ₃	H	H	CH ₃	"Bu	H	H	F	OH
XXVIII-31-3	CH ₃	H	H	CH(CH ₃) ₂	"Bu	H	H	F	OH
XXVIII-31-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	H	F	OH
XXVIII-31-5	CH ₃	H	H	CH ₂ Ph	"Bu	H	H	F	OH
XXVIII-31-6	CH ₃	H	H	CH ₂ -indol-3-yl	"Bu	H	H	F	OH
XXVIII-31-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	H	F	OH
XXVIII-31-8	CH ₃	*	H	*	"Bu	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

534

TABLE XXVIII-32

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVIII-32-1	Et	H	H	H	"Bu	H	H	F	OH
XXVIII-32-2	Et	H	H	CH ₃	"Bu	H	H	F	OH
XXVIII-32-3	Et	H	H	CH(CH ₃) ₂	"Bu	H	H	F	OH
XXVIII-32-4	Et	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	H	F	OH
XXVIII-32-5	Et	H	H	CH ₂ Ph	"Bu	H	H	F	OH
XXVIII-32-6	Et	H	H	CH ₂ -indol-3-yl	"Bu	H	H	F	OH
XXVIII-32-7	Et	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	H	F	OH
XXVIII-32-8	Et	*	H	*	"Bu	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVIII-33

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVIII-33-1	ⁱ Pr	H	H	H	"Bu	H	H	F	OH
XXVIII-33-2	ⁱ Pr	H	H	CH ₃	"Bu	H	H	F	OH
XXVIII-33-3	ⁱ Pr	H	H	CH(CH ₃) ₂	"Bu	H	H	F	OH
XXVIII-33-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	H	F	OH
XXVIII-33-5	ⁱ Pr	H	H	CH ₂ Ph	"Bu	H	H	F	OH
XXVIII-33-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	"Bu	H	H	F	OH
XXVIII-33-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	H	F	OH
XXVIII-33-8	ⁱ Pr	*	H	*	"Bu	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVIII-34

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVIII-34-1	"Bu	H	H	H	"Bu	H	H	F	OH
XXVIII-34-2	"Bu	H	H	CH ₃	"Bu	H	H	F	OH
XXVIII-34-3	"Bu	H	H	CH(CH ₃) ₂	"Bu	H	H	F	OH
XXVIII-34-4	"Bu	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	H	F	OH
XXVIII-34-5	"Bu	H	H	CH ₂ Ph	"Bu	H	H	F	OH
XXVIII-34-6	"Bu	H	H	CH ₂ -indol-3-yl	"Bu	H	H	F	OH
XXVIII-34-7	"Bu	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	H	F	OH
XXVIII-34-8	"Bu	*	H	*	"Bu	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVIII-35

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVIII-35-1	Ph	H	H	H	"Bu	H	H	F	OH
XXVIII-35-2	Ph	H	H	CH ₃	"Bu	H	H	F	OH
XXVIII-35-3	Ph	H	H	CH(CH ₃) ₂	"Bu	H	H	F	OH
XXVIII-35-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	H	F	OH
XXVIII-35-5	Ph	H	H	CH ₂ Ph	"Bu	H	H	F	OH
XXVIII-35-6	Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	H	F	OH
XXVIII-35-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	H	F	OH
XXVIII-35-8	Ph	*	H	*	"Bu	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVIII-36

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVIII-36-1	p-Me—Ph	H	H	H	"Bu	H	H	F	OH
XXVIII-36-2	p-Me—Ph	H	H	CH ₃	"Bu	H	H	F	OH
XXVIII-36-3	p-Me—Ph	H	H	CH(CH ₃) ₂	"Bu	H	H	F	OH
XXVIII-36-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	H	F	OH
XXVIII-36-5	p-Me—Ph	H	H	CH ₂ Ph	"Bu	H	H	F	OH
XXVIII-36-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	H	F	OH

535

TABLE XXVIII-36-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVIII-36-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	H	F	OH
XXVIII-36-8	p-Me—Ph	*	H	*	"Bu	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVIII-37

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVIII-37-1	p-F—Ph	H	H	H	"Bu	H	H	F	OH
XXVIII-37-2	p-F—Ph	H	H	CH ₃	"Bu	H	H	F	OH
XXVIII-37-3	p-F—Ph	H	H	CH(CH ₃) ₂	"Bu	H	H	F	OH
XXVIII-37-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	H	F	OH
XXVIII-37-5	p-F—Ph	H	H	CH ₂ Ph	"Bu	H	H	F	OH
XXVIII-37-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	H	F	OH
XXVIII-37-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	H	F	OH
XXVIII-37-8	p-F—Ph	*	H	*	"Bu	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVIII-38

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVIII-38-1	p-Cl—Ph	H	H	H	"Bu	H	H	F	OH
XXVIII-38-2	p-Cl—Ph	H	H	CH ₃	"Bu	H	H	F	OH
XXVIII-38-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	"Bu	H	H	F	OH
XXVIII-38-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	H	F	OH
XXVIII-38-5	p-Cl—Ph	H	H	CH ₂ Ph	"Bu	H	H	F	OH
XXVIII-38-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	H	F	OH
XXVIII-38-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	H	F	OH
XXVIII-38-8	p-Cl—Ph	*	H	*	"Bu	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVIII-39

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVIII-39-1	p-Br—Ph	H	H	H	"Bu	H	H	F	OH
XXVIII-39-2	p-Br—Ph	H	H	CH ₃	"Bu	H	H	F	OH
XXVIII-39-3	p-Br—Ph	H	H	CH(CH ₃) ₂	"Bu	H	H	F	OH
XXVIII-39-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	H	F	OH
XXVIII-39-5	p-Br—Ph	H	H	CH ₂ Ph	"Bu	H	H	F	OH
XXVIII-39-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	H	F	OH
XXVIII-39-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	H	F	OH
XXVIII-39-8	p-Br—Ph	*	H	*	"Bu	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

536

TABLE XXVIII-40

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
5 XXVIII-40-1	p-I—Ph	H	H	H	"Bu	H	H	F	OH
XXVIII-40-2	p-I—Ph	H	H	CH ₃	"Bu	H	H	F	OH
XXVIII-40-3	p-I—Ph	H	H	CH(CH ₃) ₂	"Bu	H	H	F	OH
XXVIII-40-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	H	F	OH
XXVIII-40-5	p-I—Ph	H	H	CH ₂ Ph	"Bu	H	H	F	OH
10 XXVIII-40-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	H	F	OH
XXVIII-40-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	H	F	OH
XXVIII-40-8	p-I—Ph	*	H	*	"Bu	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

15

TABLE XXVIII-41

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
20 XXVIII-41-1	CH ₃	H	H	H	Bz	H	H	F	OH
XXVIII-41-2	CH ₃	H	H	CH ₃	Bz	H	H	F	OH
XXVIII-41-3	CH ₃	H	H	CH(CH ₃) ₂	Bz	H	H	F	OH
XXVIII-41-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	H	F	OH
XXVIII-41-5	CH ₃	H	H	CH ₂ Ph	Bz	H	H	F	OH
XXVIII-41-6	CH ₃	H	H	CH ₂ -indol-3-yl	Bz	H	H	F	OH
XXVIII-41-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	H	F	OH
25 XXVIII-41-8	CH ₃	*	H	*	Bz	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

30

TABLE XXVIII-42

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVIII-42-1	Et	H	H	H	Bz	H	H	F	OH
XXVIII-42-2	Et	H	H	CH ₃	Bz	H	H	F	OH
XXVIII-42-3	Et	H	H	CH(CH ₃) ₂	Bz	H	H	F	OH
35 XXVIII-42-4	Et	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	H	F	OH
XXVIII-42-5	Et	H	H	CH ₂ Ph	Bz	H	H	F	OH
XXVIII-42-6	Et	H	H	CH ₂ -indol-3-yl	Bz	H	H	F	OH
XXVIII-42-7	Et	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	H	F	OH
XXVIII-42-8	Et	*	H	*	Bz	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

45

TABLE XXVIII-43

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVIII-43-1	^t Pr	H	H	H	Bz	H	H	F	OH
XXVIII-43-2	^t Pr	H	H	CH ₃	Bz	H	H	F	OH
XXVIII-43-3	^t Pr	H	H	CH(CH ₃) ₂	Bz	H	H	F	OH
XXVIII-43-4	^t Pr	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	H	F	OH
XXVIII-43-5	^t Pr	H	H	CH ₂ Ph	Bz	H	H	F	OH
50 XXVIII-43-6	^t Pr	H	H	CH ₂ -indol-3-yl	Bz	H	H	F	OH
XXVIII-43-7	^t Pr	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	H	F	OH
XXVIII-43-8	^t Pr	H	H	*	Bz	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

55

TABLE XXVIII-44

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVIII-44-1	^t Bu	H	H	H	Bz	H	H	F	OH
XXVIII-44-2	^t Bu	H	H	CH ₃	Bz	H	H	F	OH
60 XXVIII-44-3	^t Bu	H	H	CH(CH ₃) ₂	Bz	H	H	F	OH
XXVIII-44-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	H	F	OH
XXVIII-44-5	^t Bu	H	H	CH ₂ Ph	Bz	H	H	F	OH
XXVIII-44-6	^t Bu	H	H	CH ₂ -indol-3-yl	Bz	H	H	F	OH
XXVIII-44-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	H	F	OH
65 XXVIII-44-8	^t Bu	*	H	*	Bz	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

537

TABLE XXVIII-45

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVIII-45-1	Ph	H	H	H	Bz	H	H	F	OH
XXVIII-45-2	Ph	H	H	CH ₃	Bz	H	H	F	OH
XXVIII-45-3	Ph	H	H	CH(CH ₃) ₂	Bz	H	H	F	OH
XXVIII-45-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	H	F	OH
XXVIII-45-5	Ph	H	H	CH ₂ Ph	Bz	H	H	F	OH
XXVIII-45-6	Ph	H	H	CH ₂ -indol-3-yl	Bz	H	H	F	OH
XXVIII-45-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	H	F	OH
XXVIII-45-8	Ph	*	H	*	Bz	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

538

TABLE XXVIII-50

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVIII-50-1	p-I—Ph	H	H	H	Bz	H	H	F	OH
XXVIII-50-2	p-I—Ph	H	H	CH ₃	Bz	H	H	F	OH
XXVIII-50-3	p-I—Ph	H	H	CH(CH ₃) ₂	Bz	H	H	F	OH
XXVIII-50-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	H	F	OH
XXVIII-50-5	p-I—Ph	H	H	CH ₂ Ph	Bz	H	H	F	OH
XXVIII-50-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	H	F	OH
XXVIII-50-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	H	F	OH
XXVIII-50-8	p-I—Ph	*	H	*	Bz	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVIII-46

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVIII-46-1	p-Me—Ph	H	H	H	Bz	H	H	F	OH
XXVIII-46-2	p-Me—Ph	H	H	CH ₃	Bz	H	H	F	OH
XXVIII-46-3	p-Me—Ph	H	H	CH(CH ₃) ₂	Bz	H	H	F	OH
XXVIII-46-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	H	F	OH
XXVIII-46-5	p-Me—Ph	H	H	CH ₂ Ph	Bz	H	H	F	OH
XXVIII-46-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	H	F	OH
XXVIII-46-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	H	F	OH
XXVIII-46-8	p-Me—Ph	*	H	*	Bz	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVIII-47

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVIII-47-1	p-F—Ph	H	H	H	Bz	H	H	F	OH
XXVIII-47-2	p-F—Ph	H	H	CH ₃	Bz	H	H	F	OH
XXVIII-47-3	p-F—Ph	H	H	CH(CH ₃) ₂	Bz	H	H	F	OH
XXVIII-47-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	H	F	OH
XXVIII-47-5	p-F—Ph	H	H	CH ₂ Ph	Bz	H	H	F	OH
XXVIII-47-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	H	F	OH
XXVIII-47-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	H	F	OH
XXVIII-47-8	p-F—Ph	*	H	*	Bz	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVIII-48

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVIII-48-1	p-Cl—Ph	H	H	H	Bz	H	H	F	OH
XXVIII-48-2	p-Cl—Ph	H	H	CH ₃	Bz	H	H	F	OH
XXVIII-48-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	Bz	H	H	F	OH
XXVIII-48-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	H	F	OH
XXVIII-48-5	p-Cl—Ph	H	H	CH ₂ Ph	Bz	H	H	F	OH
XXVIII-48-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	H	F	OH
XXVIII-48-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	H	F	OH
XXVIII-48-8	p-Cl—Ph	*	H	*	Bz	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXVIII-49

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXVIII-49-1	p-Br—Ph	H	H	H	Bz	H	H	F	OH
XXVIII-49-2	p-Br—Ph	H	H	CH ₃	Bz	H	H	F	OH
XXVIII-49-3	p-Br—Ph	H	H	CH(CH ₃) ₂	Bz	H	H	F	OH
XXVIII-49-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	H	F	OH
XXVIII-49-5	p-Br—Ph	H	H	CH ₂ Ph	Bz	H	H	F	OH
XXVIII-49-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	H	F	OH
XXVIII-49-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	H	F	OH
XXVIII-49-8	p-Br—Ph	*	H	*	Bz	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

XXIX

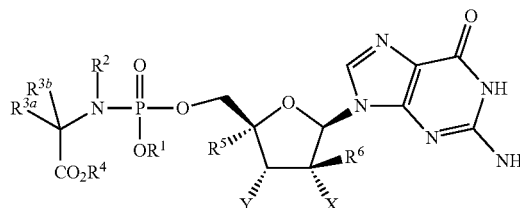


TABLE XXIX-1

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIX-1-1	CH ₃	H	H	H	CH ₃	H	CH ₃	F	OH
XXIX-1-2	CH ₃	H	H	CH ₃	CH ₃	H	CH ₃	F	OH
XXIX-1-3	CH ₃	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH
XXIX-1-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH
XXIX-1-5	CH ₃	H	H	CH ₂ Ph	CH ₃	H	CH ₃	F	OH
XXIX-1-6	CH ₃	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	F	OH
XXIX-1-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	F	OH
XXIX-1-8	CH ₃	*	H	*	CH ₃	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIX-2

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIX-2-1	Et	H	H	H	CH ₃	H	CH ₃	F	OH
XXIX-2-2	Et	H	H	CH ₃	CH ₃	H	CH ₃	F	OH
XXIX-2-3	Et	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH
XXIX-2-4	Et	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH
XXIX-2-5	Et	H	H	CH ₂ Ph	CH ₃	H	CH ₃	F	OH
XXIX-2-6	Et	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	F	OH
XXIX-2-7	Et	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	F	OH
XXIX-2-8	Et	*	H	*	CH ₃	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

539

TABLE XXIX-3

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIX-3-1	^t Pr	H	H	H	CH ₃	H	CH ₃	F	OH
XXIX-3-2	^t Pr	H	H	CH ₃	CH ₃	H	CH ₃	F	OH
XXIX-3-3	^t Pr	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH
XXIX-3-4	^t Pr	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH
XXIX-3-5	^t Pr	H	H	CH ₂ Ph	CH ₃	H	CH ₃	F	OH
XXIX-3-6	^t Pr	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	F	OH
XXIX-3-7	^t Pr	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	F	OH
XXIX-3-8	^t Pr	*	H	*	CH ₃	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIX-4

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIX-4-1	^t Bu	H	H	H	CH ₃	H	CH ₃	F	OH
XXIX-4-2	^t Bu	H	H	CH ₃	CH ₃	H	CH ₃	F	OH
XXIX-4-3	^t Bu	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH
XXIX-4-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH
XXIX-4-5	^t Bu	H	H	CH ₂ Ph	CH ₃	H	CH ₃	F	OH

540

TABLE XXIX-4-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIX-4-6	^t Bu	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	F	OH
XXIX-4-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	F	OH
XXIX-4-8	^t Bu	*	H	*	CH ₃	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIX-5

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIX-5-1	Ph	H	H	H	CH ₃	H	CH ₃	F	OH
XXIX-5-2	Ph	H	H	CH ₃	CH ₃	H	CH ₃	F	OH
XXIX-5-3	Ph	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH
XXIX-5-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH
XXIX-5-5	Ph	H	H	CH ₂ Ph	CH ₃	H	CH ₃	F	OH
XXIX-5-6	Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	F	OH
XXIX-5-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	F	OH
XXIX-5-8	Ph	H	H	*	CH ₃	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIX-6

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIX-6-1	p-Me—Ph	H	H	H	CH ₃	H	CH ₃	F	OH
XXIX-6-2	p-Me—Ph	H	H	CH ₃	CH ₃	H	CH ₃	F	OH
XXIX-6-3	p-Me—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH
XXIX-6-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH
XXIX-6-5	p-Me—Ph	H	H	CH ₂ Ph	CH ₃	H	CH ₃	F	OH
XXIX-6-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	F	OH
XXIX-6-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	F	OH
XXIX-6-8	p-Me—Ph	*	H	*	CH ₃	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIX-7

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIX-7-1	p-F—Ph	H	H	H	CH ₃	H	CH ₃	F	OH
XXIX-7-2	p-F—Ph	H	H	CH ₃	CH ₃	H	CH ₃	F	OH
XXIX-7-3	p-F—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH
XXIX-7-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH
XXIX-7-6	p-F—Ph	H	H	CH ₂ Ph	CH ₃	H	CH ₃	F	OH
XXIX-7-7	p-F—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	F	OH
XXIX-7-8	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	F	OH
XXIX-7-20	p-F—Ph	*	H	*	CH ₃	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIX-8

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIX-8-1	p-Cl—Ph	H	H	H	CH ₃	H	CH ₃	F	OH
XXIX-8-2	p-Cl—Ph	H	H	CH ₃	CH ₃	H	CH ₃	F	OH
XXIX-8-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH
XXIX-8-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH
XXIX-8-5	p-Cl—Ph	H	H	CH ₂ Ph	CH ₃	H	CH ₃	F	OH
XXIX-8-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	F	OH
XXIX-8-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	F	OH
XXIX-8-8	p-Cl—Ph	*	H	*	CH ₃	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIX-9

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIX-9-1	p-Br—Ph	H	H	H	CH ₃	H	CH ₃	F	OH
XXIX-9-2	p-Br—Ph	H	H	CH ₃	CH ₃	H	CH ₃	F	OH
XXIX-9-3	p-Br—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH
XXIX-9-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH
XXIX-9-6	p-Br—Ph	H	H	CH ₂ Ph	CH ₃	H	CH ₃	F	OH
XXIX-9-7	p-Br—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	F	OH
XXIX-9-8	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	F	OH
XXIX-9-20	p-Br—Ph	*	H	*	CH ₃	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIX-10

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIX-10-1	p-I—Ph	H	H	H	CH ₃	H	CH ₃	F	OH
XXIX-10-2	p-I—Ph	H	H	CH ₃	CH ₃	H	CH ₃	F	OH
XXIX-10-3	p-I—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH
XXIX-10-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	CH ₃	F	OH
XXIX-10-5	p-I—Ph	H	H	CH ₂ Ph	CH ₃	H	CH ₃	F	OH
XXIX-10-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	CH ₃	F	OH
XXIX-10-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	CH ₃	F	OH
XXIX-10-8	p-I—Ph	*	H	*	CH ₃	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIX-11

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIX-11-1	CH ₃	H	H	H	Et	H	CH ₃	F	OH
XXIX-11-2	CH ₃	H	H	CH ₃	Et	H	CH ₃	F	OH
XXIX-11-3	CH ₃	H	H	CH(CH ₃) ₂	Et	H	CH ₃	F	OH
XXIX-11-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	F	OH
XXIX-11-5	CH ₃	H	H	CH ₂ Ph	Et	H	CH ₃	F	OH
XXIX-11-6	CH ₃	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	F	OH
XXIX-11-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	F	OH
XXIX-11-8	CH ₃	*	H	*	Et	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIX-12

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIX-12-1	Et	H	H	H	Et	H	CH ₃	F	OH
XXIX-12-2	Et	H	H	CH ₃	Et	H	CH ₃	F	OH
XXIX-12-3	Et	H	H	CH(CH ₃) ₂	Et	H	CH ₃	F	OH
XXIX-12-4	Et	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	F	OH
XXIX-12-5	Et	H	H	CH ₂ Ph	Et	H	CH ₃	F	OH
XXIX-12-6	Et	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	F	OH
XXIX-12-7	Et	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	F	OH
XXIX-12-8	Et	*	H	*	Et	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIX-13

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIX-13-1	^t Pr	H	H	H	Et	H	CH ₃	F	OH
XXIX-13-2	^t Pr	H	H	CH ₃	Et	H	CH ₃	F	OH
XXIX-13-3	^t Pr	H	H	CH(CH ₃) ₂	Et	H	CH ₃	F	OH
XXIX-13-4	^t Pr	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	F	OH
XXIX-13-5	^t Pr	H	H	CH ₂ Ph	Et	H	CH ₃	F	OH
XXIX-13-6	^t Pr	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	F	OH

TABLE XXIX-13-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIX-13-7	^t Pr	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	F	OH
XXIX-13-8	^t Pr	*	H	*	Et	H	CH ₃	F	OH

35 *R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIX-14

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIX-14-1	^t Bu	H	H	H	Et	H	CH ₃	F	OH
XXIX-14-2	^t Bu	H	H	CH ₃	Et	H	CH ₃	F	OH
XXIX-14-3	^t Bu	H	H	CH(CH ₃) ₂	Et	H	CH ₃	F	OH
XXIX-14-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	F	OH
XXIX-14-5	^t Bu	H	H	CH ₂ Ph	Et	H	CH ₃	F	OH
XXIX-14-6	^t Bu	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	F	OH
XXIX-14-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	F	OH
XXIX-14-8	^t Bu	*	H	*	Et	H	CH ₃	F	OH

50 *R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIX-15

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIX-15-1	Ph	H	H	H	Et	H	CH ₃	F	OH
XXIX-15-2	Ph	H	H	CH ₃	Et	H	CH ₃	F	OH
XXIX-15-3	Ph	H	H	CH(CH ₃) ₂	Et	H	CH ₃	F	OH
XXIX-15-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	F	OH
XXIX-15-5	Ph	H	H	CH ₂ Ph	Et	H	CH ₃	F	OH
XXIX-15-6	Ph	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	F	OH
XXIX-15-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	F	OH
XXIX-15-8	Ph	*	H	*	Et	H	CH ₃	F	OH

65 *R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

543

TABLE XXIX-16

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIX-16-1	p-Me—Ph	H	H	H	Et	H	CH ₃	F	OH
XXIX-16-2	p-Me—Ph	H	H	CH ₃	Et	H	CH ₃	F	OH
XXIX-16-3	p-Me—Ph	H	H	CH(CH ₃) ₂	Et	H	CH ₃	F	OH
XXIX-16-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	F	OH
XXIX-16-5	p-Me—Ph	H	H	CH ₂ Ph	Et	H	CH ₃	F	OH
XXIX-16-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	F	OH
XXIX-16-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	F	OH
XXIX-16-8	p-Me—Ph	*	H	*	Et	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIX-17

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIX-17-1	p-F—Ph	H	H	H	Et	H	CH ₃	F	OH
XXIX-17-2	p-F—Ph	H	H	CH ₃	Et	H	CH ₃	F	OH
XXIX-17-3	p-F—Ph	H	H	CH(CH ₃) ₂	Et	H	CH ₃	F	OH
XXIX-17-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	F	OH
XXIX-17-5	p-F—Ph	H	H	CH ₂ Ph	Et	H	CH ₃	F	OH
XXIX-17-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	F	OH
XXIX-17-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	F	OH
XXIX-17-8	p-F—Ph	*	H	*	Et	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIX-18

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIX-18-1	p-Cl—Ph	H	H	H	Et	H	CH ₃	F	OH
XXIX-18-2	p-Cl—Ph	H	H	CH ₃	Et	H	CH ₃	F	OH
XXIX-18-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	Et	H	CH ₃	F	OH
XXIX-18-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	F	OH
XXIX-18-5	p-Cl—Ph	H	H	CH ₂ Ph	Et	H	CH ₃	F	OH
XXIX-18-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	F	OH
XXIX-18-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	F	OH
XXIX-18-8	p-Cl—Ph	*	H	*	Et	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIX-19

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIX-19-1	p-Br—Ph	H	H	H	Et	H	CH ₃	F	OH
XXIX-19-2	p-Br—Ph	H	H	CH ₃	Et	H	CH ₃	F	OH
XXIX-19-3	p-Br—Ph	H	H	CH(CH ₃) ₂	Et	H	CH ₃	F	OH
XXIX-19-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	F	OH
XXIX-19-5	p-Br—Ph	H	H	CH ₂ Ph	Et	H	CH ₃	F	OH
XXIX-19-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	F	OH
XXIX-19-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	F	OH
XXIX-19-8	p-Br—Ph	*	H	*	Et	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIX-20

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIX-20-1	p-I—Ph	H	H	H	Et	H	CH ₃	F	OH
XXIX-20-2	p-I—Ph	H	H	CH ₃	Et	H	CH ₃	F	OH
XXIX-20-3	p-I—Ph	H	H	CH(CH ₃) ₂	Et	H	CH ₃	F	OH
XXIX-20-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	CH ₃	F	OH
XXIX-20-5	p-I—Ph	H	H	CH ₂ Ph	Et	H	CH ₃	F	OH
XXIX-20-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	Et	H	CH ₃	F	OH
XXIX-20-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	CH ₃	F	OH
XXIX-20-8	p-I—Ph	*	H	*	Et	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

545

TABLE XXIX-21

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIX-21-1	CH ₃	H	H	H	ⁱ Pr	H	CH ₃	F	OH
XXIX-21-2	CH ₃	H	H	CH ₃	ⁱ Pr	H	CH ₃	F	OH
XXIX-21-3	CH ₃	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH
XXIX-21-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH
XXIX-21-5	CH ₃	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	F	OH
XXIX-21-6	CH ₃	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	F	OH
XXIX-21-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	F	OH
XXIX-21-8	CH ₃	*	H	*	ⁱ Pr	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIX-22

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIX-22-1	Et	H	H	H	ⁱ Pr	H	CH ₃	F	OH
XXIX-22-2	Et	H	H	CH ₃	ⁱ Pr	H	CH ₃	F	OH
XXIX-22-3	Et	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH
XXIX-22-4	Et	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH
XXIX-22-5	Et	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	F	OH
XXIX-22-6	Et	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	F	OH
XXIX-22-7	Et	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	F	OH
XXIX-22-8	Et	*	H	*	ⁱ Pr	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIX-23

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIX-23-1	ⁱ Pr	H	H	H	ⁱ Pr	H	CH ₃	F	OH
XXIX-23-2	ⁱ Pr	H	H	CH ₃	ⁱ Pr	H	CH ₃	F	OH
XXIX-23-3	ⁱ Pr	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH
XXIX-23-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH
XXIX-23-5	ⁱ Pr	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	F	OH

546

TABLE XXIX-23-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIX-23-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	F	OH
XXIX-23-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	F	OH
XXIX-23-8	ⁱ Pr	*	H	*	ⁱ Pr	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIX-24

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIX-24-1	^t Bu	H	H	H	ⁱ Pr	H	CH ₃	F	OH
XXIX-24-2	^t Bu	H	H	CH ₃	ⁱ Pr	H	CH ₃	F	OH
XXIX-24-3	^t Bu	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH
XXIX-24-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH
XXIX-24-5	^t Bu	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	F	OH
XXIX-24-6	^t Bu	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	F	OH
XXIX-24-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	F	OH
XXIX-24-8	^t Bu	*	H	*	ⁱ Pr	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIX-25

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIX-25-1	Ph	H	H	H	ⁱ Pr	H	CH ₃	F	OH
XXIX-25-2	Ph	H	H	CH ₃	ⁱ Pr	H	CH ₃	F	OH
XXIX-25-3	Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH
XXIX-25-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH
XXIX-25-5	Ph	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	F	OH
XXIX-25-6	Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	F	OH
XXIX-25-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	F	OH
XXIX-25-8	Ph	*	H	*	ⁱ Pr	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIX-26

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIX-26-1	p-Me—Ph	H	H	H	ⁱ Pr	H	CH ₃	F	OH
XXIX-26-2	p-Me—Ph	H	H	CH ₃	ⁱ Pr	H	CH ₃	F	OH
XXIX-26-3	p-Me—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH
XXIX-26-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH
XXIX-26-5	p-Me—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	F	OH
XXIX-26-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	F	OH
XXIX-26-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	F	OH
XXIX-26-8	p-Me—Ph	*	H	*	ⁱ Pr	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIX-27

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIX-27-1	p-F—Ph	H	H	H	ⁱ Pr	H	CH ₃	F	OH
XXIX-27-2	p-F—Ph	H	H	CH ₃	ⁱ Pr	H	CH ₃	F	OH
XXIX-27-3	p-F—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH
XXIX-27-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH
XXIX-27-5	p-F—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	F	OH
XXIX-27-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	F	OH
XXIX-27-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	F	OH
XXIX-27-8	p-F—Ph	*	H	*	ⁱ Pr	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIX-28

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIX-28-1	p-Cl—Ph	H	H	H	ⁱ Pr	H	CH ₃	F	OH
XXIX-28-2	p-Cl—Ph	H	H	CH ₃	ⁱ Pr	H	CH ₃	F	OH
XXIX-28-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH
XXIX-28-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH
XXIX-28-5	p-Cl—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	F	OH
XXIX-28-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	F	OH
XXIX-28-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	F	OH
XXIX-28-8	p-Cl—Ph	*	H	*	ⁱ Pr	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIX-29

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIX-29-1	p-Br—Ph	H	H	H	ⁱ Pr	H	CH ₃	F	OH
XXIX-29-2	p-Br—Ph	H	H	CH ₃	ⁱ Pr	H	CH ₃	F	OH
XXIX-29-3	p-Br—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH
XXIX-29-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH
XXIX-29-5	p-Br—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	F	OH
XXIX-29-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	F	OH
XXIX-29-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	F	OH
XXIX-29-8	p-Br—Ph	*	H	*	ⁱ Pr	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIX-30

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIX-30-1	p-I—Ph	H	H	H	ⁱ Pr	H	CH ₃	F	OH
XXIX-30-2	p-I—Ph	H	H	CH ₃	ⁱ Pr	H	CH ₃	F	OH
XXIX-30-3	p-I—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH
XXIX-30-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	CH ₃	F	OH
XXIX-30-5	p-I—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	CH ₃	F	OH
XXIX-30-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	CH ₃	F	OH
XXIX-30-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	CH ₃	F	OH
XXIX-30-8	p-I—Ph	*	H	*	ⁱ Pr	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIX-31

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIX-31-1	CH ₃	H	H	H	ⁿ Bu	H	CH ₃	F	OH
XXIX-31-2	CH ₃	H	H	CH ₃	ⁿ Bu	H	CH ₃	F	OH
XXIX-31-3	CH ₃	H	H	CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	F	OH
XXIX-31-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	F	OH
XXIX-31-5	CH ₃	H	H	CH ₂ Ph	ⁿ Bu	H	CH ₃	F	OH
XXIX-31-6	CH ₃	H	H	CH ₂ -indol-3-yl	ⁿ Bu	H	CH ₃	F	OH
XXIX-31-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	H	CH ₃	F	OH
XXIX-31-8	CH ₃	*	H	*	ⁿ Bu	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIX-32

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIX-32-1	Et	H	H	H	ⁿ Bu	H	CH ₃	F	OH
XXIX-32-2	Et	H	H	CH ₃	ⁿ Bu	H	CH ₃	F	OH
XXIX-32-3	Et	H	H	CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	F	OH
XXIX-32-4	Et	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	F	OH
XXIX-32-5	Et	H	H	CH ₂ Ph	ⁿ Bu	H	CH ₃	F	OH
XXIX-32-6	Et	H	H	CH ₂ -indol-3-yl	ⁿ Bu	H	CH ₃	F	OH
XXIX-32-7	Et	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	H	CH ₃	F	OH
XXIX-32-8	Et	*	H	*	ⁿ Bu	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

40

TABLE XXIX-33

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIX-33-1	ⁱ Pr	H	H	H	ⁿ Bu	H	CH ₃	F	OH
XXIX-33-2	ⁱ Pr	H	H	CH ₃	ⁿ Bu	H	CH ₃	F	OH
XXIX-33-3	ⁱ Pr	H	H	CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	F	OH
XXIX-33-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	F	OH
XXIX-33-5	ⁱ Pr	H	H	CH ₂ Ph	ⁿ Bu	H	CH ₃	F	OH
XXIX-33-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	ⁿ Bu	H	CH ₃	F	OH
XXIX-33-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	H	CH ₃	F	OH
XXIX-33-8	ⁱ Pr	*	H	*	ⁿ Bu	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

55

TABLE XXIX-34

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIX-34-1	ⁿ Bu	H	H	H	ⁿ Bu	H	CH ₃	F	OH
XXIX-34-2	ⁿ Bu	H	H	CH ₃	ⁿ Bu	H	CH ₃	F	OH
XXIX-34-3	ⁿ Bu	H	H	CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	F	OH
XXIX-34-4	ⁿ Bu	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	F	OH
XXIX-34-5	ⁿ Bu	H	H	CH ₂ Ph	ⁿ Bu	H	CH ₃	F	OH
XXIX-34-6	ⁿ Bu	H	H	CH ₂ -indol-3-yl	ⁿ Bu	H	CH ₃	F	OH
XXIX-34-7	ⁿ Bu	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	H	CH ₃	F	OH
XXIX-34-8	ⁿ Bu	*	H	*	ⁿ Bu	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

549

TABLE XXIX-35

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIX-35-1	Ph	H	H	H	"Bu	H	CH ₃	F	OH
XXIX-35-2	Ph	H	H	CH ₃	"Bu	H	CH ₃	F	OH
XXIX-35-3	Ph	H	H	CH(CH ₃) ₂	"Bu	H	CH ₃	F	OH
XXIX-35-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	CH ₃	F	OH
XXIX-35-5	Ph	H	H	CH ₂ Ph	"Bu	H	CH ₃	F	OH

550

TABLE XXIX-35-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIX-35-6	Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	CH ₃	F	OH
XXIX-35-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	CH ₃	F	OH
XXIX-35-8	Ph	*	H	*	"Bu	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIX-36

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIX-36-1	p-Me—Ph	H	H	H	"Bu	H	CH ₃	F	OH
XXIX-36-2	p-Me—Ph	H	H	CH ₃	"Bu	H	CH ₃	F	OH
XXIX-36-3	p-Me—Ph	H	H	CH(CH ₃) ₂	"Bu	H	CH ₃	F	OH
XXIX-36-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	CH ₃	F	OH
XXIX-36-5	p-Me—Ph	H	H	CH ₂ Ph	"Bu	H	CH ₃	F	OH
XXIX-36-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	CH ₃	F	OH
XXIX-36-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	CH ₃	F	OH
XXIX-36-8	p-Me—Ph	*	H	*	"Bu	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIX-37

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIX-37-1	p-F—Ph	H	H	H	"Bu	H	CH ₃	F	OH
XXIX-37-2	p-F—Ph	H	H	CH ₃	"Bu	H	CH ₃	F	OH
XXIX-37-3	p-F—Ph	H	H	CH(CH ₃) ₂	"Bu	H	CH ₃	F	OH
XXIX-37-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	CH ₃	F	OH
XXIX-37-5	p-F—Ph	H	H	CH ₂ Ph	"Bu	H	CH ₃	F	OH
XXIX-37-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	CH ₃	F	OH
XXIX-37-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	CH ₃	F	OH
XXIX-37-8	p-F—Ph	*	H	*	"Bu	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIX-38

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIX-38-1	p-Cl—Ph	H	H	H	"Bu	H	CH ₃	F	OH
XXIX-38-2	p-Cl—Ph	H	H	CH ₃	"Bu	H	CH ₃	F	OH
XXIX-38-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	"Bu	H	CH ₃	F	OH
XXIX-38-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	CH ₃	F	OH
XXIX-38-5	p-Cl—Ph	H	H	CH ₂ Ph	"Bu	H	CH ₃	F	OH
XXIX-38-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	CH ₃	F	OH
XXIX-38-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	CH ₃	F	OH
XXIX-38-8	p-Cl—Ph	*	H	*	"Bu	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIX-39

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIX-39-1	p-Br—Ph	H	H	H	"Bu	H	CH ₃	F	OH
XXIX-39-2	p-Br—Ph	H	H	CH ₃	"Bu	H	CH ₃	F	OH
XXIX-39-3	p-Br—Ph	H	H	CH(CH ₃) ₂	"Bu	H	CH ₃	F	OH
XXIX-39-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	CH ₃	F	OH
XXIX-39-5	p-Br—Ph	H	H	CH ₂ Ph	"Bu	H	CH ₃	F	OH
XXIX-39-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	CH ₃	F	OH
XXIX-39-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	CH ₃	F	OH
XXIX-39-8	p-Br—Ph	*	H	*	"Bu	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIX-40

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIX-40-1	p-I—Ph	H	H	H	ⁿ Bu	H	CH ₃	F	OH
XXIX-40-2	p-I—Ph	H	H	CH ₃	ⁿ Bu	H	CH ₃	F	OH
XXIX-40-3	p-I—Ph	H	H	CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	F	OH
XXIX-40-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	CH ₃	F	OH
XXIX-40-5	p-I—Ph	H	H	CH ₂ Ph	ⁿ Bu	H	CH ₃	F	OH
XXIX-40-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	ⁿ Bu	H	CH ₃	F	OH
XXIX-40-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	H	CH ₃	F	OH
XXIX-40-8	p-I—Ph	*	H	*	ⁿ Bu	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIX-41

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIX-41-1	CH ₃	H	H	H	Bz	H	CH ₃	F	OH
XXIX-41-2	CH ₃	H	H	CH ₃	Bz	H	CH ₃	F	OH
XXIX-41-3	CH ₃	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	F	OH
XXIX-41-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	F	OH
XXIX-41-5	CH ₃	H	H	CH ₂ Ph	Bz	H	CH ₃	F	OH
XXIX-41-6	CH ₃	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	F	OH
XXIX-41-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	F	OH
XXIX-41-8	CH ₃	*	H	*	Bz	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIX-42

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIX-42-1	Et	H	H	H	Bz	H	CH ₃	F	OH
XXIX-42-2	Et	H	H	CH ₃	Bz	H	CH ₃	F	OH
XXIX-42-3	Et	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	F	OH
XXIX-42-4	Et	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	F	OH
XXIX-42-5	Et	H	H	CH ₂ Ph	Bz	H	CH ₃	F	OH
XXIX-42-6	Et	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	F	OH
XXIX-42-7	Et	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	F	OH
XXIX-42-8	Et	*	H	*	Bz	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIX-43

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIX-43-1	^t Pr	H	H	H	Bz	H	CH ₃	F	OH
XXIX-43-2	^t Pr	H	H	CH ₃	Bz	H	CH ₃	F	OH
XXIX-43-3	^t Pr	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	F	OH
XXIX-43-4	^t Pr	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	F	OH
XXIX-43-5	^t Pr	H	H	CH ₂ Ph	Bz	H	CH ₃	F	OH

TABLE XXIX-43-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIX-43-6	^t Pr	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	F	OH
XXIX-43-7	^t Pr	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	F	OH
XXIX-43-8	^t Pr	*	H	*	Bz	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIX-44

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIX-44-1	^t Bu	H	H	H	Bz	H	CH ₃	F	OH
XXIX-44-2	^t Bu	H	H	CH ₃	Bz	H	CH ₃	F	OH
XXIX-44-3	^t Bu	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	F	OH
XXIX-44-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	F	OH
XXIX-44-5	^t Bu	H	H	CH ₂ Ph	Bz	H	CH ₃	F	OH
XXIX-44-6	^t Bu	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	F	OH
XXIX-44-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	F	OH
XXIX-44-8	^t Bu	*	H	*	Bz	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIX-45

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIX-45-1	Ph	H	H	H	Bz	H	CH ₃	F	OH
XXIX-45-2	Ph	H	H	CH ₃	Bz	H	CH ₃	F	OH
XXIX-45-3	Ph	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	F	OH
XXIX-45-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	F	OH
XXIX-45-5	Ph	H	H	CH ₂ Ph	Bz	H	CH ₃	F	OH
XXIX-45-6	Ph	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	F	OH
XXIX-45-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	F	OH
XXIX-45-8	Ph	*	H	*	Bz	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIX-46

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIX-46-1	p-Me—Ph	H	H	H	Bz	H	CH ₃	F	OH
XXIX-46-2	p-Me—Ph	H	H	CH ₃	Bz	H	CH ₃	F	OH
XXIX-46-3	p-Me—Ph	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	F	OH
XXIX-46-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	F	OH
XXIX-46-5	p-Me—Ph	H	H	CH ₂ Ph	Bz	H	CH ₃	F	OH
XXIX-46-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	F	OH
XXIX-46-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	F	OH
XXIX-46-8	p-Me—Ph	*	H	*	Bz	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIX-47

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIX-47-1	p-F—Ph	H	H	H	Bz	H	CH ₃	F	OH
XXIX-47-2	p-F—Ph	H	H	CH ₃	Bz	H	CH ₃	F	OH
XXIX-47-3	p-F—Ph	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	F	OH
XXIX-47-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	F	OH
XXIX-47-5	p-F—Ph	H	H	CH ₂ Ph	Bz	H	CH ₃	F	OH
XXIX-47-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	F	OH
XXIX-47-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	F	OH
XXIX-47-8	p-F—Ph	*	H	*	Bz	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIX-48

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIX-48-1	p-Cl—Ph	H	H	H	Bz	H	CH ₃	F	OH
XXIX-48-2	p-Cl—Ph	H	H	CH ₃	Bz	H	CH ₃	F	OH
XXIX-48-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	F	OH
XXIX-48-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	F	OH
XXIX-48-5	p-Cl—Ph	H	H	CH ₂ Ph	Bz	H	CH ₃	F	OH
XXIX-48-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	F	OH
XXIX-48-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	F	OH
XXIX-48-8	p-Cl—Ph	*	H	*	Bz	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIX-49

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIX-49-1	p-Br—Ph	H	H	H	Bz	H	CH ₃	F	OH
XXIX-49-2	p-Br—Ph	H	H	CH ₃	Bz	H	CH ₃	F	OH
XXIX-49-3	p-Br—Ph	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	F	OH
XXIX-49-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	F	OH
XXIX-49-5	p-Br—Ph	H	H	CH ₂ Ph	Bz	H	CH ₃	F	OH
XXIX-49-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	F	OH
XXIX-49-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	F	OH
XXIX-49-8	p-Br—Ph	*	H	*	Bz	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXIX-50

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXIX-50-1	p-I—Ph	H	H	H	Bz	H	CH ₃	F	OH
XXIX-50-2	p-I—Ph	H	H	CH ₃	Bz	H	CH ₃	F	OH
XXIX-50-3	p-I—Ph	H	H	CH(CH ₃) ₂	Bz	H	CH ₃	F	OH
XXIX-50-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	CH ₃	F	OH
XXIX-50-5	p-I—Ph	H	H	CH ₂ Ph	Bz	H	CH ₃	F	OH
XXIX-50-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	CH ₃	F	OH
XXIX-50-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	CH ₃	F	OH
XXIX-50-8	p-I—Ph	*	H	*	Bz	H	CH ₃	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXX-1

XXX	No	Chemical Structure									
		R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y	
55	XXX-1-1	CH ₃	H	H	H	CH ₃	H	F	H	OH	
	XXX-1-2	CH ₃	H	H	CH ₃	CH ₃	H	F	H	OH	
	XXX-1-3	CH ₃	H	H	CH(CH ₃) ₂	CH ₃	H	F	H	OH	
	60	XXX-1-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	H	OH
		XXX-1-5	CH ₃	H	H	CH ₂ Ph	CH ₃	H	F	H	OH
		XXX-1-6	CH ₃	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	H	OH
		XXX-1-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	H	OH
		XXX-1-8	CH ₃	*	H	*	CH ₃	H	F	H	OH
65											

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

555

TABLE XXX-2

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXX-2-1	Et	H	H	H	CH ₃	F	H	H	OH
XXX-2-2	Et	H	H	CH ₃	CH ₃	F	H	H	OH
XXX-2-3	Et	H	H	CH(CH ₃) ₂	CH ₃	H	F	H	OH
XXX-2-4	Et	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	H	OH
XXX-2-5	Et	H	H	CH ₂ Ph	CH ₃	H	F	H	OH
XXX-2-6	Et	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	H	OH
XXX-2-7	Et	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	F	H	H	OH
XXX-2-8	Et	*	H	*	CH ₃	F	H	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXX-3

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXX-3-1	^t Pr	H	H	H	CH ₃	H	F	H	OH
XXX-3-2	^t Pr	H	H	CH ₃	CH ₃	H	F	H	OH
XXX-3-3	^t Pr	H	H	CH(CH ₃) ₂	CH ₃	H	F	H	OH
XXX-3-4	^t Pr	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	H	OH
XXX-3-5	^t Pr	H	H	CH ₂ Ph	CH ₃	H	F	H	OH
XXX-3-6	^t Pr	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	H	OH
XXX-3-7	^t Pr	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	H	OH
XXX-3-8	^t Pr	*	H	*	CH ₃	F	H	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

556

TABLE XXX-4

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXX-4-1	^t Bu	H	H	H	CH ₃	H	F	H	OH
XXX-4-2	^t Bu	H	H	CH ₃	CH ₃	H	F	H	OH
XXX-4-3	^t Bu	H	H	CH(CH ₃) ₂	CH ₃	H	F	H	OH
XXX-4-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	H	OH
XXX-4-5	^t Bu	H	H	CH ₂ Ph	CH ₃	H	F	H	OH
XXX-4-6	^t Bu	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	H	OH
XXX-4-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	H	OH
XXX-4-8	^t Bu	*	H	*	CH ₃	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXX-5

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXX-5-1	Ph	H	H	H	CH ₃	H	F	H	OH
XXX-5-2	Ph	H	H	CH ₃	CH ₃	H	F	H	OH
XXX-5-3	Ph	H	H	CH(CH ₃) ₂	CH ₃	H	F	H	OH
XXX-5-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	H	OH
XXX-5-5	Ph	H	H	CH ₂ Ph	CH ₃	H	F	H	OH
XXX-5-6	Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	H	OH
XXX-5-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	H	OH
XXX-5-8	Ph	*	H	*	CH ₃	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXX-6

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXX-6-1	p-Me-Ph	H	H	H	CH ₃	H	F	H	OH
XXX-6-2	p-Me-Ph	H	H	CH ₃	CH ₃	H	F	H	OH
XXX-6-3	p-Me-Ph	H	H	CH(CH ₃) ₂	CH ₃	H	F	H	OH
XXX-6-4	p-Me-Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	F	H	H	OH
XXX-6-5	p-Me-Ph	H	H	CH ₂ Ph	CH ₃	H	F	H	OH
XXX-6-6	p-Me-Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	H	OH
XXX-6-7	p-Me-Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	H	OH
XXX-6-8	p-Me-Ph	*	H	*	CH ₃	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

40

TABLE XXX-7

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXX-7-1	p-F-Ph	H	H	H	CH ₃	H	F	H	OH
XXX-7-2	p-F-Ph	H	H	CH ₃	CH ₃	H	F	H	OH
XXX-7-3	p-F-Ph	H	H	CH(CH ₃) ₂	CH ₃	H	F	H	OH
XXX-7-4	p-F-Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	H	OH
XXX-7-6	p-F-Ph	H	H	CH ₂ Ph	CH ₃	H	F	H	OH
XXX-7-7	p-F-Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	H	OH
XXX-7-8	p-F-Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	H	OH
XXX-7-20	p-F-Ph	*	H	*	CH ₃	H	F	H	OH

50

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXX-8

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXX-8-1	p-Cl-Ph	H	H	H	CH ₃	H	F	H	OH
XXX-8-2	p-Cl-Ph	H	H	CH ₃	CH ₃	H	F	H	OH
XXX-8-3	p-Cl-Ph	H	H	CH(CH ₃) ₂	CH ₃	H	F	H	OH
XXX-8-4	p-Cl-Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	H	OH
XXX-8-5	p-Cl-Ph	H	H	CH ₂ Ph	CH ₃	H	F	H	OH
XXX-8-6	p-Cl-Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	H	OH
XXX-8-7	p-Cl-Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	H	OH
XXX-8-8	p-Cl-Ph	*	H	*	CH ₃	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXX-9

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXX-9-1	p-Br—Ph	H	H	H	CH ₃	H	F	H	OH
XXX-9-2	p-Br—Ph	H	H	CH ₃	CH ₃	H	F	H	OH
XXX-9-3	p-Br—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	F	H	OH
XXX-9-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	H	OH
XXX-9-6	p-Br—Ph	H	H	CH ₂ Ph	CH ₃	H	F	H	OH
XXX-9-7	p-Br—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	H	OH
XXX-9-8	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	H	OH
XXX-9-20	p-Br—Ph	*	H	*	CH ₃	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXX-10

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXX-10-1	p-I—Ph	H	H	H	CH ₃	H	F	H	OH
XXX-10-2	p-I—Ph	H	H	CH ₃	CH ₃	H	F	H	OH
XXX-10-3	p-I—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	F	H	OH
XXX-10-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	H	OH
XXX-10-5	p-I—Ph	H	H	CH ₂ Ph	CH ₃	H	F	H	OH
XXX-10-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	H	OH
XXX-10-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	H	OH
XXX-10-8	p-I—Ph	*	H	*	CH ₃	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXX-11

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXX-11-1	CH ₃	H	H	H	Et	H	F	H	OH
XXX-11-2	CH ₃	H	H	CH ₃	Et	H	F	H	OH
XXX-11-3	CH ₃	H	H	CH(CH ₃) ₂	Et	H	F	H	OH
XXX-11-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	H	OH
XXX-11-5	CH ₃	H	H	CH ₂ Ph	Et	H	F	H	OH
XXX-11-6	CH ₃	H	H	CH ₂ -indol-3-yl	Et	H	F	H	OH
XXX-11-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	H	OH
XXX-11-8	CH ₃	*	H	*	Et	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXX-12

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXX-12-1	Et	H	H	H	Et	H	F	H	OH
XXX-12-2	Et	H	H	CH ₃	Et	H	F	H	OH
XXX-12-3	Et	H	H	CH(CH ₃) ₂	Et	H	F	H	OH
XXX-12-4	Et	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	H	OH
XXX-12-5	Et	H	H	CH ₂ Ph	Et	H	F	H	OH
XXX-12-6	Et	H	H	CH ₂ -indol-3-yl	Et	H	F	H	OH
XXX-12-7	Et	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	H	OH
XXX-12-8	Et	*	H	*	Et	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXX-13

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXX-13-1	ⁱ Pr	H	H	H	Et	H	F	H	OH
XXX-13-2	ⁱ Pr	H	H	CH ₃	Et	H	F	H	OH
XXX-13-3	ⁱ Pr	H	H	CH(CH ₃) ₂	Et	H	F	H	OH
XXX-13-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	H	OH
XXX-13-5	ⁱ Pr	H	H	CH ₂ Ph	Et	H	F	H	OH
XXX-13-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	Et	H	F	H	OH
XXX-13-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	H	OH
XXX-13-8	ⁱ Pr	*	H	*	Et	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXX-14

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXX-14-1	^t Bu	H	H	H	Et	H	F	H	OH
XXX-14-2	^t Bu	H	H	CH ₃	Et	H	F	H	OH
XXX-14-3	^t Bu	H	H	CH(CH ₃) ₂	Et	H	F	H	OH
XXX-14-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	H	OH
XXX-14-5	^t Bu	H	H	CH ₂ Ph	Et	H	F	H	OH
XXX-14-6	^t Bu	H	H	CH ₂ -indol-3-yl	Et	H	F	H	OH
XXX-14-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	H	OH
XXX-14-8	^t Bu	*	H	*	Et	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXX-15

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXX-15-1	Ph	H	H	H	Et	H	F	H	OH
XXX-15-2	Ph	H	H	CH ₃	Et	H	F	H	OH
XXX-15-3	Ph	H	H	CH(CH ₃) ₂	Et	H	F	H	OH
XXX-15-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	H	OH
XXX-15-5	Ph	H	H	CH ₂ Ph	Et	F	H	H	OH
XXX-15-6	Ph	H	H	CH ₂ -indol-3-yl	Et	H	F	H	OH
XXX-15-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	H	OH
XXX-15-8	Ph	*	H	*	Et	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXX-16

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXX-16-1	p-Me—Ph	H	H	H	Et	H	F	H	OH
XXX-16-2	p-Me—Ph	H	H	CH ₃	Et	H	F	H	OH
XXX-16-3	p-Me—Ph	H	H	CH(CH ₃) ₂	Et	H	F	H	OH
XXX-16-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	H	OH
XXX-16-5	p-Me—Ph	H	H	CH ₂ Ph	Et	H	F	H	OH
XXX-16-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	Et	H	F	H	OH
XXX-16-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	H	OH
XXX-16-8	p-Me—Ph	*	H	*	Et	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

559

TABLE XXX-17

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXX-17-1	p-F—Ph	H	H	H	Et	H	F	H	OH
XXX-17-2	p-F—Ph	H	H	CH ₃	Et	H	F	H	OH
XXX-17-3	p-F—Ph	H	H	CH(CH ₃) ₂	Et	H	F	H	OH
XXX-17-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	H	OH
XXX-17-5	p-F—Ph	H	H	CH ₂ Ph	Et	H	F	H	OH
XXX-17-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	Et	H	F	H	OH
XXX-17-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	H	OH
XXX-17-8	p-F—Ph	*	H	*	Et	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXX-18

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXX-18-1	p-Cl—Ph	H	H	H	Et	H	F	H	OH
XXX-18-2	p-Cl—Ph	H	H	CH ₃	Et	H	F	H	OH
XXX-18-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	Et	H	F	H	OH
XXX-18-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	H	OH
XXX-18-5	p-Cl—Ph	H	H	CH ₂ Ph	Et	H	F	H	OH
XXX-18-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	Et	H	F	H	OH
XXX-18-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	H	OH
XXX-18-8	p-Cl—Ph	*	H	*	Et	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXX-19

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXX-19-1	p-Br—Ph	H	H	H	Et	H	F	H	OH
XXX-19-2	p-Br—Ph	H	H	CH ₃	Et	H	F	H	OH
XXX-19-3	p-Br—Ph	H	H	CH(CH ₃) ₂	Et	H	F	H	OH
XXX-19-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	H	OH
XXX-19-5	p-Br—Ph	H	H	CH ₂ Ph	Et	H	F	H	OH
XXX-19-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	Et	H	F	H	OH
XXX-19-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	H	OH
XXX-19-8	p-Br—Ph	*	H	*	Et	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXX-20

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXX-20-1	p-I—Ph	H	H	H	Et	H	F	H	OH
XXX-20-2	p-I—Ph	H	H	CH ₃	Et	H	F	H	OH
XXX-20-3	p-I—Ph	H	H	CH(CH ₃) ₂	Et	H	F	H	OH
XXX-20-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	H	OH
XXX-20-5	p-I—Ph	H	H	CH ₂ Ph	Et	H	F	H	OH
XXX-20-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	Et	H	F	H	OH
XXX-20-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	H	OH
XXX-20-8	p-I—Ph	*	H	*	Et	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXX-21

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXX-21-1	CH ₃	H	H	H	ⁱ Pr	H	F	H	OH
XXX-21-2	CH ₃	H	H	CH ₃	ⁱ Pr	H	F	H	OH
XXX-21-3	CH ₃	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH
XXX-21-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH
XXX-21-5	CH ₃	H	H	CH ₂ Ph	ⁱ Pr	H	F	H	OH
XXX-21-6	CH ₃	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	H	OH
XXX-21-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	H	OH
XXX-21-8	CH ₃	*	H	*	ⁱ Pr	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

560

TABLE XXX-22

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXX-22-1	Et	H	H	H	ⁱ Pr	H	F	H	OH
XXX-22-2	Et	H	H	CH ₃	ⁱ Pr	H	F	H	OH
XXX-22-3	Et	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH
XXX-22-4	Et	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH
XXX-22-5	Et	H	H	CH ₂ Ph	ⁱ Pr	H	F	H	OH
XXX-22-6	Et	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	H	OH
XXX-22-7	Et	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	H	OH
XXX-22-8	Et	*	H	*	ⁱ Pr	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

15

TABLE XXX-23

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXX-23-1	ⁱ Pr	H	H	H	ⁱ Pr	H	F	H	OH
XXX-23-2	ⁱ Pr	H	H	CH ₃	ⁱ Pr	H	F	H	OH
XXX-23-3	ⁱ Pr	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH
XXX-23-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH
XXX-23-5	ⁱ Pr	H	H	CH ₂ Ph	ⁱ Pr	H	F	H	OH
XXX-23-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	H	OH
XXX-23-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	H	OH
XXX-23-8	ⁱ Pr	*	H	*	ⁱ Pr	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

30

TABLE XXX-24

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXX-24-1	^t Bu	H	H	H	ⁱ Pr	H	F	H	OH
XXX-24-2	^t Bu	H	H	CH ₃	ⁱ Pr	H	F	H	OH
XXX-24-3	^t Bu	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH
XXX-24-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH
XXX-24-5	^t Bu	H	H	CH ₂ Ph	ⁱ Pr	H	F	H	OH
XXX-24-6	^t Bu	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	H	OH
XXX-24-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	H	OH
XXX-24-8	^t Bu	*	H	*	ⁱ Pr	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

40

TABLE XXX-25

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXX-25-1	Ph	H	H	H	ⁱ Pr	H	F	H	OH
XXX-25-2	Ph	H	H	CH ₃	ⁱ Pr	H	F	H	OH
XXX-25-3	Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH
XXX-25-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH
XXX-25-5	Ph	H	H	CH ₂ Ph	ⁱ Pr	H	F	H	OH
XXX-25-6	Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	H	OH
XXX-25-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	H	OH
XXX-25-8	Ph	*	H	*	ⁱ Pr	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

55

TABLE XXX-26

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXX-26-1	p-Me—Ph	H	H	H	ⁱ Pr	H	F	H	OH
XXX-26-2	p-Me—Ph	H	H	CH ₃	ⁱ Pr	H	F	H	OH
XXX-26-3	p-Me—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH
XXX-26-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH
XXX-26-5	p-Me—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	F	H	OH
XXX-26-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	H	OH
XXX-26-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	H	OH
XXX-26-8	p-Me—Ph	*	H	*	ⁱ Pr	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

561

TABLE XXX-27

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXX-27-1	p-F—Ph	H	H	H	ⁱ Pr	H	F	H	OH
XXX-27-2	p-F—Ph	H	H	CH ₃	ⁱ Pr	H	F	H	OH
XXX-27-3	p-F—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH
XXX-27-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH
XXX-27-5	p-F—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	F	H	OH
XXX-27-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	H	OH
XXX-27-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	H	OH
XXX-27-8	p-F—Ph	*	H	*	ⁱ Pr	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXX-28

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXX-28-1	p-Cl—Ph	H	H	H	ⁱ Pr	H	F	H	OH
XXX-28-2	p-Cl—Ph	H	H	CH ₃	ⁱ Pr	H	F	H	OH
XXX-28-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH
XXX-28-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH
XXX-28-5	p-Cl—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	F	H	OH
XXX-28-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	H	OH
XXX-28-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	H	OH
XXX-28-8	p-Cl—Ph	*	H	*	ⁱ Pr	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXX-29

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXX-29-1	p-Br—Ph	H	H	H	ⁱ Pr	H	F	H	OH
XXX-29-2	p-Br—Ph	H	H	CH ₃	ⁱ Pr	H	F	H	OH
XXX-29-3	p-Br—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH
XXX-29-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH
XXX-29-5	p-Br—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	F	H	OH
XXX-29-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	H	OH
XXX-29-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	H	OH
XXX-29-8	p-Br—Ph	*	H	*	ⁱ Pr	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXX-30

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXX-30-1	p-I—Ph	H	H	H	ⁱ Pr	H	F	H	OH
XXX-30-2	p-I—Ph	H	H	CH ₃	ⁱ Pr	H	F	H	OH
XXX-30-3	p-I—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH
XXX-30-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	H	OH
XXX-30-5	p-I—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	F	H	OH
XXX-30-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	H	OH
XXX-30-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	H	OH
XXX-30-8	p-I—Ph	*	H	*	ⁱ Pr	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXX-31

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXX-31-1	CH ₃	H	H	H	ⁿ Bu	H	F	H	OH
XXX-31-2	CH ₃	H	H	CH ₃	ⁿ Bu	H	F	H	OH
XXX-31-3	CH ₃	H	H	CH(CH ₃) ₂	ⁿ Bu	H	F	H	OH
XXX-31-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	F	H	OH
XXX-31-5	CH ₃	H	H	CH ₂ Ph	ⁿ Bu	H	F	H	OH
XXX-31-6	CH ₃	H	H	CH ₂ -indol-3-yl	ⁿ Bu	H	F	H	OH
XXX-31-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	H	F	H	OH
XXX-31-8	CH ₃	*	H	*	ⁿ Bu	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

562

TABLE XXX-32

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
5 XXX-32-1	Et	H	H	H	ⁿ Bu	H	F	H	OH
XXX-32-2	Et	H	H	CH ₃	ⁿ Bu	H	F	H	OH
XXX-32-3	Et	H	H	CH(CH ₃) ₂	ⁿ Bu	H	F	H	OH
XXX-32-4	Et	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	F	H	OH
XXX-32-5	Et	H	H	CH ₂ Ph	ⁿ Bu	H	F	H	OH
10 XXX-32-6	Et	H	H	CH ₂ -indol-3-yl	ⁿ Bu	H	F	H	OH
XXX-32-7	Et	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	H	F	H	OH
XXX-32-8	Et	*	H	*	ⁿ Bu	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

15

TABLE XXX-33

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
20 XXX-33-1	ⁱ Pr	H	H	H	ⁿ Bu	H	F	H	OH
XXX-33-2	ⁱ Pr	H	H	CH ₃	ⁿ Bu	H	F	H	OH
XXX-33-3	ⁱ Pr	H	H	CH(CH ₃) ₂	ⁿ Bu	H	F	H	OH
XXX-33-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	F	H	OH
XXX-33-5	ⁱ Pr	H	H	CH ₂ Ph	ⁿ Bu	H	F	H	OH
XXX-33-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	ⁿ Bu	H	F	H	OH
XXX-33-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	H	F	H	OH
25 XXX-33-8	ⁱ Pr	*	H	*	ⁿ Bu	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

30

TABLE XXX-34

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXX-34-1	ⁿ Bu	H	H	H	ⁿ Bu	H	F	H	OH
XXX-34-2	ⁿ Bu	H	H	CH ₃	ⁿ Bu	H	F	H	OH
XXX-34-3	ⁿ Bu	H	H	CH(CH ₃) ₂	ⁿ Bu	H	F	H	OH
35 XXX-34-4	ⁿ Bu	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	F	H	OH
XXX-34-5	ⁿ Bu	H	H	CH ₂ Ph	ⁿ Bu	H	F	H	OH
XXX-34-6	ⁿ Bu	H	H	CH ₂ -indol-3-yl	ⁿ Bu	H	F	H	OH
XXX-34-7	ⁿ Bu	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	H	F	H	OH
XXX-34-8	ⁿ Bu	*	H	*	ⁿ Bu	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

40

TABLE XXX-35

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
45 XXX-35-1	Ph	H	H	H	ⁿ Bu	H	F	H	OH
XXX-35-2	Ph	H	H	CH ₃	ⁿ Bu	H	F	H	OH
XXX-35-3	Ph	H	H	CH(CH ₃) ₂	ⁿ Bu	H	F	H	OH
XXX-35-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	F	H	OH
XXX-35-5	Ph	H	H	CH ₂ Ph	ⁿ Bu	H	F	H	OH
50 XXX-35-6	Ph	H	H	CH ₂ -indol-3-yl	ⁿ Bu	H	F	H	OH
XXX-35-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	H	F	H	OH
XXX-35-8	Ph	*	H	*	ⁿ Bu	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

55

TABLE XXX-36

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXX-36-1	p-Me—Ph	H	H	H	ⁿ Bu	H	F	H	OH
XXX-36-2	p-Me—Ph	H	H	CH ₃	ⁿ Bu	H	F	H	OH
60 XXX-36-3	p-Me—Ph	H	H	CH(CH ₃) ₂	ⁿ Bu	H	F	H	OH
XXX-36-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	F	H	OH
XXX-36-5	p-Me—Ph	H	H	CH ₂ Ph	ⁿ Bu	H	F	H	OH
XXX-36-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	ⁿ Bu	H	F	H	OH
XXX-36-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	H	F	H	OH
65 XXX-36-8	p-Me—Ph	*	H	*	ⁿ Bu	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

563

TABLE XXX-37

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXX-37-1	p-F—Ph	H	H	H	"Bu	H	F	H	OH
XXX-37-2	p-F—Ph	H	H	CH ₃	"Bu	H	F	H	OH
XXX-37-3	p-F—Ph	H	H	CH(CH ₃) ₂	"Bu	H	F	H	OH
XXX-37-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	H	OH
XXX-37-5	p-F—Ph	H	H	CH ₂ Ph	"Bu	H	F	H	OH
XXX-37-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	F	H	OH
XXX-37-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	H	OH
XXX-37-8	p-F—Ph	*	H	*	"Bu	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXX-38

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXX-38-1	p-Cl—Ph	H	H	H	"Bu	H	F	H	OH
XXX-38-2	p-Cl—Ph	H	H	CH ₃	"Bu	H	F	H	OH
XXX-38-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	"Bu	H	F	H	OH
XXX-38-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	H	OH
XXX-38-5	p-Cl—Ph	H	H	CH ₂ Ph	"Bu	H	F	H	OH
XXX-38-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	F	H	OH
XXX-38-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	H	OH
XXX-38-8	p-Cl—Ph	*	H	*	"Bu	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXX-39

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXX-39-1	p-Br—Ph	H	H	H	"Bu	H	F	H	OH
XXX-39-2	p-Br—Ph	H	H	CH ₃	"Bu	H	F	H	OH
XXX-39-3	p-Br—Ph	H	H	CH(CH ₃) ₂	"Bu	H	F	H	OH
XXX-39-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	H	OH
XXX-39-5	p-Br—Ph	H	H	CH ₂ Ph	"Bu	H	F	H	OH
XXX-39-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	F	H	OH
XXX-39-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	H	OH
XXX-39-8	p-Br—Ph	*	H	*	"Bu	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXX-40

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXX-40-1	p-I—Ph	H	H	H	"Bu	H	F	H	OH
XXX-40-2	p-I—Ph	H	H	CH ₃	"Bu	H	F	H	OH
XXX-40-3	p-I—Ph	H	H	CH(CH ₃) ₂	"Bu	H	F	H	OH
XXX-40-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	H	OH
XXX-40-5	p-I—Ph	H	H	CH ₂ Ph	"Bu	H	F	H	OH
XXX-40-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	F	H	OH
XXX-40-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	H	OH
XXX-40-8	p-I—Ph	*	H	*	"Bu	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXX-41

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXX-41-1	CH ₃	H	H	H	Bz	H	F	H	OH
XXX-41-2	CH ₃	H	H	CH ₃	Bz	H	F	H	OH
XXX-41-3	CH ₃	H	H	CH(CH ₃) ₂	Bz	H	F	H	OH
XXX-41-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	H	OH
XXX-41-5	CH ₃	H	H	CH ₂ Ph	Bz	H	F	H	OH
XXX-41-6	CH ₃	H	H	CH ₂ -indol-3-yl	Bz	H	F	H	OH
XXX-41-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	H	OH
XXX-41-8	CH ₃	*	H	*	Bz	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

564

TABLE XXX-42

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
5 XXX-42-1	Et	H	H	H	Bz	H	F	H	OH
XXX-42-2	Et	H	H	CH ₃	Bz	H	F	H	OH
XXX-42-3	Et	H	H	CH(CH ₃) ₂	Bz	H	F	H	OH
XXX-42-4	Et	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	H	OH
XXX-42-5	Et	H	H	CH ₂ Ph	Bz	H	F	H	OH
10 XXX-42-6	Et	H	H	CH ₂ -indol-3-yl	Bz	H	F	H	OH
XXX-42-7	Et	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	H	OH
XXX-42-8	Et	*	H	*	Bz	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

15

TABLE XXX-43

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
20 XXX-43-1	ⁱ Pr	H	H	H	Bz	H	F	H	OH
XXX-43-2	ⁱ Pr	H	H	CH ₃	Bz	H	F	H	OH
XXX-43-3	ⁱ Pr	H	H	CH(CH ₃) ₂	Bz	H	F	H	OH
XXX-43-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	H	OH
XXX-43-5	ⁱ Pr	H	H	CH ₂ Ph	Bz	H	F	H	OH
XXX-43-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	Bz	H	F	H	OH
XXX-43-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	H	OH
25 XXX-43-8	ⁱ Pr	*	H	*	Bz	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

30

TABLE XXX-44

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXX-44-1	^t Bu	H	H	H	Bz	H	F	H	OH
XXX-44-2	^t Bu	H	H	CH ₃	Bz	H	F	H	OH
XXX-44-3	^t Bu	H	H	CH(CH ₃) ₂	Bz	H	F	H	OH
XXX-44-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	H	OH
XXX-44-5	^t Bu	H	H	CH ₂ Ph	Bz	H	F	H	OH
XXX-44-6	^t Bu	H	H	CH ₂ -indol-3-yl	Bz	H	F	H	OH
XXX-44-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	H	OH
XXX-44-8	^t Bu	*	H	*	Bz	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

40

TABLE XXX-45

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
45 XXX-45-1	Ph	H	H	H	Bz	H	F	H	OH
XXX-45-2	Ph	H	H	CH ₃	Bz	H	F	H	OH
XXX-45-3	Ph	H	H	CH(CH ₃) ₂	Bz	H	F	H	OH
XXX-45-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	H	OH
XXX-45-5	Ph	H	H	CH ₂ Ph	Bz	H	F	H	OH
XXX-45-6	Ph	H	H	CH ₂ -indol-3-yl	Bz	H	F	H	OH
50 XXX-45-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	H	OH
XXX-45-8	Ph	*	H	*	Bz	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

55

TABLE XXX-46

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXX-46-1	p-Me—Ph	H	H	H	Bz	H	F	H	OH
XXX-46-2	p-Me—Ph	H	H	CH ₃	Bz	H	F	H	OH
XXX-46-3	p-Me—Ph	H	H	CH(CH ₃) ₂	Bz	H	F	H	OH
XXX-46-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	H	OH
XXX-46-5	p-Me—Ph	H	H	CH ₂ Ph	Bz	H	F	H	OH
XXX-46-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	F	H	OH
XXX-46-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	H	OH
65 XXX-46-8	p-Me—Ph	*	H	*	Bz	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

565

TABLE XXX-47

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXX-47-1	p-F—Ph	H	H	H	Bz	H	F	H	OH
XXX-47-2	p-F—Ph	H	H	CH ₃	Bz	H	F	H	OH
XXX-47-3	p-F—Ph	H	H	CH(CH ₃) ₂	Bz	H	F	H	OH
XXX-47-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	H	OH
XXX-47-5	p-F—Ph	H	H	CH ₂ Ph	Bz	H	F	H	OH
XXX-47-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	F	H	OH
XXX-47-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	H	OH
XXX-47-8	p-F—Ph	*	H	*	Bz	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXX-48

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXX-48-1	p-Cl—Ph	H	H	H	Bz	H	F	H	OH
XXX-48-2	p-Cl—Ph	H	H	CH ₃	Bz	H	F	H	OH
XXX-48-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	Bz	H	F	H	OH
XXX-48-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	H	OH
XXX-48-5	p-Cl—Ph	H	H	CH ₂ Ph	Bz	H	F	H	OH
XXX-48-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	F	H	OH
XXX-48-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	H	OH
XXX-48-8	p-Cl—Ph	*	H	*	Bz	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

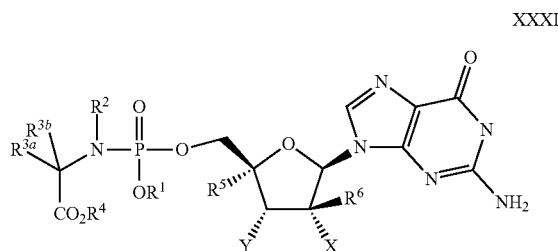
TABLE XXX-49

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXX-49-1	p-Br—Ph	H	H	H	Bz	H	F	H	OH
XXX-49-2	p-Br—Ph	H	H	CH ₃	Bz	H	F	H	OH
XXX-49-3	p-Br—Ph	H	H	CH(CH ₃) ₂	Bz	H	F	H	OH
XXX-49-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	H	OH
XXX-49-5	p-Br—Ph	H	H	CH ₂ Ph	Bz	H	F	H	OH
XXX-49-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	F	H	OH
XXX-49-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	H	OH
XXX-49-8	p-Br—Ph	*	H	*	Bz	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXX-50

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXX-50-1	p-I—Ph	H	H	H	Bz	H	F	H	OH
XXX-50-2	p-I—Ph	H	H	CH ₃	Bz	H	F	H	OH
XXX-50-3	p-I—Ph	H	H	CH(CH ₃) ₂	Bz	H	F	H	OH
XXX-50-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	H	OH
XXX-50-5	p-I—Ph	H	H	CH ₂ Ph	Bz	H	F	H	OH
XXX-50-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	F	H	OH
XXX-50-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	H	OH
XXX-50-8	p-I—Ph	*	H	*	Bz	H	F	H	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

566

TABLE XXXI-1

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
5 XXXI-1-1	CH ₃	H	H	H	CH ₃	H	F	F	OH
XXXI-1-2	CH ₃	H	H	CH ₃	CH ₃	H	F	F	OH
XXXI-1-3	CH ₃	H	H	CH(CH ₃) ₂	CH ₃	H	F	F	OH
XXXI-1-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	F	OH
XXXI-1-5	CH ₃	H	H	CH ₂ Ph	CH ₃	H	F	F	OH
10 XXXI-1-6	CH ₃	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	F	OH
XXXI-1-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	F	OH
XXXI-1-8	CH ₃	*	H	*	CH ₃	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

15

TABLE XXXI-2

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
20 XXXI-2-1	Et	H	H	H	CH ₃	H	F	F	OH
XXXI-2-2	Et	H	H	CH ₃	CH ₃	H	F	F	OH
XXXI-2-3	Et	H	H	CH(CH ₃) ₂	CH ₃	H	F	F	OH
XXXI-2-4	Et	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	F	OH
XXXI-2-5	Et	H	H	CH ₂ Ph	CH ₃	H	F	F	OH
XXXI-2-6	Et	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	F	OH
25 XXXI-2-7	Et	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	F	OH
XXXI-2-8	Et	*	H	*	CH ₃	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

30

TABLE XXXI-3

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
35 XXXI-3-1	ⁱ Pr	H	H	H	CH ₃	H	F	F	OH
XXXI-3-2	ⁱ Pr	H	H	CH ₃	CH ₃	H	F	F	OH
XXXI-3-3	ⁱ Pr	H	H	CH(CH ₃) ₂	CH ₃	H	F	F	OH
XXXI-3-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	F	OH
XXXI-3-5	ⁱ Pr	H	H	CH ₂ Ph	CH ₃	H	F	F	OH
XXXI-3-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	F	OH
XXXI-3-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	F	OH
XXXI-3-8	ⁱ Pr	*	H	*	CH ₃	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

40

TABLE XXXI-4

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
45 XXXI-4-1	^t Bu	H	H	H	CH ₃	H	F	F	OH
XXXI-4-2	^t Bu	H	H	CH ₃	CH ₃	H	F	F	OH
XXXI-4-3	^t Bu	H	H	CH(CH ₃) ₂	CH ₃	H	F	F	OH
XXXI-4-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	F	OH
XXXI-4-5	^t Bu	H	H	CH ₂ Ph	CH ₃	H	F	F	OH
XXXI-4-6	^t Bu	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	F	OH
50 XXXI-4-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	F	OH
XXXI-4-8	^t Bu	*	H	*	CH ₃	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

55

TABLE XXXI-5

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
60 XXXI-5-1	Ph	H	H	H	CH ₃	H	F	F	OH
XXXI-5-2	Ph	H	H	CH ₃	CH ₃	H	F	F	OH
XXXI-5-3	Ph	H	H	CH(CH ₃) ₂	CH ₃	H	F	F	OH
XXXI-5-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	F	OH
XXXI-5-5	Ph	H	H	CH ₂ Ph	CH ₃	H	F	F	OH
XXXI-5-6	Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	F	OH
XXXI-5-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	F	OH
65 XXXI-5-8	Ph	*	H	*	CH ₃	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

567

TABLE XXXI-6

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXI-6-1	p-Me—Ph	H	H	H	CH ₃	H	F	F	OH
XXXI-6-2	p-Me—Ph	H	H	CH ₃	CH ₃	H	F	F	OH
XXXI-6-3	p-Me—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	F	F	OH
XXXI-6-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	F	OH
XXXI-6-5	p-Me—Ph	H	H	CH ₂ Ph	CH ₃	H	F	F	OH
XXXI-6-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	F	OH
XXXI-6-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	F	OH
XXXI-6-8	p-Me—Ph	*	H	*	CH ₃	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXI-7

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXI-7-1	p-F—Ph	H	H	H	CH ₃	H	F	F	OH
XXXI-7-2	p-F—Ph	H	H	CH ₃	CH ₃	H	F	F	OH
XXXI-7-3	p-F—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	F	F	OH
XXXI-7-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	F	OH
XXXI-7-6	p-F—Ph	H	H	CH ₂ Ph	CH ₃	H	F	F	OH
XXXI-7-7	p-F—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	F	OH
XXXI-7-8	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	F	OH
XXXI-7-20	p-F—Ph	*	H	*	CH ₃	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXI-8

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXI-8-1	p-Cl—Ph	H	H	H	CH ₃	H	F	F	OH
XXXI-8-2	p-Cl—Ph	H	H	CH ₃	CH ₃	H	F	F	OH
XXXI-8-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	F	F	OH
XXXI-8-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	F	OH
XXXI-8-5	p-Cl—Ph	H	H	CH ₂ Ph	CH ₃	H	F	F	OH
XXXI-8-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	F	OH
XXXI-8-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	F	OH
XXXI-8-8	p-Cl—Ph	*	H	*	CH ₃	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXI-9

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXI-9-1	p-Br—Ph	H	H	H	CH ₃	H	F	F	OH
XXXI-9-2	p-Br—Ph	H	H	CH ₃	CH ₃	H	F	F	OH

568

TABLE XXXI-9-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXI-9-3	p-Br—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	F	F	OH
XXXI-9-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	F	OH
XXXI-9-6	p-Br—Ph	H	H	CH ₂ Ph	CH ₃	H	F	F	OH
XXXI-9-7	p-Br—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	F	OH
XXXI-9-8	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	F	OH
XXXI-9-20	p-Br—Ph	*	H	*	CH ₃	H	F	F	OH

15 *R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXI-10

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXI-10-1	p-I—Ph	H	H	H	CH ₃	H	F	F	OH
XXXI-10-2	p-I—Ph	H	H	CH ₃	CH ₃	H	F	F	OH
XXXI-10-3	p-I—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	F	F	OH
XXXI-10-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	F	F	OH
XXXI-10-5	p-I—Ph	H	H	CH ₂ Ph	CH ₃	H	F	F	OH
XXXI-10-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	F	F	OH
XXXI-10-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	F	F	OH
XXXI-10-8	p-I—Ph	*	H	*	CH ₃	H	F	F	OH

35 *R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXI-11

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXI-11-1	CH ₃	H	H	H	Et	H	F	F	OH
XXXI-11-2	CH ₃	H	H	CH ₃	Et	H	F	F	OH
XXXI-11-3	CH ₃	H	ii	CH(CH ₃) ₂	Et	H	F	F	OH
XXXI-11-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	F	OH
XXXI-11-5	CH ₃	H	H	CH ₂ Ph	Et	H	F	F	OH
XXXI-11-6	CH ₃	H	H	CH ₂ -indol-3-yl	Et	H	F	F	OH
XXXI-11-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	F	OH
XXXI-11-8	CH ₃	*	H	*	Et	H	F	F	OH

40 *R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXI-12

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXI-12-1	Et	H	H	H	Et	H	F	F	OH
XXXI-12-2	Et	H	H	CH ₃	Et	H	F	F	OH
XXXI-12-3	Et	H	H	CH(CH ₃) ₂	Et	H	F	F	OH
XXXI-12-4	Et	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	F	OH
XXXI-12-5	Et	H	H	CH ₂ Ph	Et	H	F	F	OH
XXXI-12-6	Et	H	H	CH ₂ -indol-3-yl	Et	H	F	F	OH
XXXI-12-7	Et	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	F	OH
XXXI-12-8	Et	*	H	*	Et	H	F	F	OH

60 *R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXI-13

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXI-13-1	ⁱ Pr	H	H	H	Et	H	F	F	OH
XXXI-13-2	ⁱ Pr	H	H	CH ₃	Et	H	F	F	OH

569

TABLE XXXI-13-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXI-13-3	ⁱ Pr	H	H	CH(CH ₃) ₂	Et	H	F	F	OH
XXXI-13-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	F	OH
XXXI-13-5	ⁱ Pr	H	H	CH ₂ Ph	Et	H	F	F	OH
XXXI-13-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	Et	H	F	F	OH
XXXI-13-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	F	OH
XXXI-13-8	ⁱ Pr	*	H	*	Et	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXI-14

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXI-14-1	^t Bu	H	H	H	Et	H	F	F	OH
XXXI-14-2	^t Bu	H	H	CH ₃	Et	H	F	F	OH
XXXI-14-3	^t Bu	H	H	CH(CH ₃) ₂	Et	H	F	F	OH
XXXI-14-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	F	OH
XXXI-14-5	^t Bu	H	H	CH ₂ Ph	Et	H	F	F	OH
XXXI-14-6	^t Bu	H	H	CH ₂ -indol-3-yl	Et	H	F	F	OH
XXXI-14-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	F	OH
XXXI-14-8	^t Bu	*	H	*	Et	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXI-15

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXI-15-1	Ph	H	H	H	Et	H	F	F	OH
XXXI-15-2	Ph	H	H	CH ₃	Et	H	F	F	OH
XXXI-15-3	Ph	H	H	CH(CH ₃) ₂	Et	H	F	F	OH
XXXI-15-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	F	OH
XXXI-15-5	Ph	H	H	CH ₂ Ph	Et	H	F	F	OH
XXXI-15-6	Ph	H	H	CH ₂ -indol-3-yl	Et	H	F	F	OH
XXXI-15-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	F	OH
XXXI-15-8	Ph	*	H	*	Et	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXI-16

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXI-16-1	p-Me—Ph	H	H	H	Et	H	F	F	OH
XXXI-16-2	p-Me—Ph	H	H	CH ₃	Et	H	F	F	OH
XXXI-16-3	p-Me—Ph	H	H	CH(CH ₃) ₂	Et	H	F	F	OH
XXXI-16-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	F	OH
XXXI-16-5	p-Me—Ph	H	H	CH ₂ Ph	Et	H	F	F	OH
XXXI-16-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	Et	H	F	F	OH
XXXI-16-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	F	OH
XXXI-16-8	p-Me—Ph	*	H	*	Et	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXI-17

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXI-17-1	p-F—Ph	H	H	H	Et	H	F	F	OH
XXXI-17-2	p-F—Ph	H	H	CH ₃	Et	H	F	F	OH
XXXI-17-3	p-F—Ph	H	H	CH(CH ₃) ₂	Et	H	F	F	OH
XXXI-17-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	F	OH
XXXI-17-5	p-F—Ph	H	H	CH ₂ Ph	Et	H	F	F	OH
XXXI-17-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	Et	H	F	F	OH
XXXI-17-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	F	OH
XXXI-17-8	p-F—Ph	*	H	*	Et	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

570

TABLE XXXI-18

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
5 XXXI-18-1	p-Cl—Ph	H	H	H	Et	H	F	F	OH
XXXI-18-2	p-Cl—Ph	H	H	CH ₃	Et	H	F	F	OH
XXXI-18-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	Et	H	F	F	OH
XXXI-18-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	F	OH
XXXI-18-5	p-Cl—Ph	H	H	CH ₂ Ph	Et	H	F	F	OH
10 XXXI-18-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	Et	H	F	F	OH
XXXI-18-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	F	OH
XXXI-18-8	p-Cl—Ph	*	H	*	Et	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

15

TABLE XXXI-19

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
20 XXXI-19-1	p-Br—Ph	H	H	H	Et	H	F	F	OH
XXXI-19-2	p-Br—Ph	H	H	CH ₃	Et	H	F	F	OH
XXXI-19-3	p-Br—Ph	H	H	CH(CH ₃) ₂	Et	H	F	F	OH
XXXI-19-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	F	OH
XXXI-19-5	p-Br—Ph	H	H	CH ₂ Ph	Et	H	F	F	OH
XXXI-19-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	Et	H	F	F	OH
25 XXXI-19-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	F	OH
XXXI-19-8	p-Br—Ph	*	H	*	Et	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

30

TABLE XXXI-20

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXI-20-1	p-I—Ph	H	H	H	Et	H	F	F	OH
XXXI-20-2	p-I—Ph	H	H	CH ₃	Et	H	F	F	OH
XXXI-20-3	p-I—Ph	H	H	CH(CH ₃) ₂	Et	H	F	F	OH
35 XXXI-20-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	F	F	OH
XXXI-20-5	p-I—Ph	H	H	CH ₂ Ph	Et	H	F	F	OH
XXXI-20-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	Et	H	F	F	OH
XXXI-20-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	F	F	OH
XXXI-20-8	p-I—Ph	*	H	*	Et	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

40

TABLE XXXI-21

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
45 XXXI-21-1	CH ₃	H	H	H	ⁱ Pr	H	F	F	OH
XXXI-21-2	CH ₃	H	H	CH ₃	ⁱ Pr	H	F	F	OH
XXXI-21-3	CH ₃	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH
XXXI-21-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH
XXXI-21-5	CH ₃	H	H	CH ₂ Ph	ⁱ Pr	H	F	F	OH
XXXI-21-6	CH ₃	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	F	OH
XXXI-21-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	F	OH
XXXI-21-8	CH ₃	*	H	*	ⁱ Pr	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

55

TABLE XXXI-22

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXI-22-1	Et	H	H	H	ⁱ Pr	H	F	F	OH
XXXI-22-2	Et	H	H	CH ₃	ⁱ Pr	H	F	F	OH
60 XXXI-22-3	Et	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH
XXXI-22-4	Et	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH
XXXI-22-5	Et	H	H	CH ₂ Ph	ⁱ Pr	H	F	F	OH
XXXI-22-6	Et	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	F	OH
XXXI-22-7	Et	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	F	OH
65 XXXI-22-8	Et	*	H	*	ⁱ Pr	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

571

TABLE XXXI-23

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXI-23-1	ⁱ Pr	H	H	H	ⁱ Pr	H	F	F	OH
XXXI-23-2	ⁱ Pr	H	H	CH ₃	ⁱ Pr	H	F	F	OH
XXXI-23-3	ⁱ Pr	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH
XXXI-23-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH
XXXI-23-5	ⁱ Pr	H	H	CH ₂ Ph	ⁱ Pr	H	F	F	OH
XXXI-23-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	F	OH
XXXI-23-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	F	OH
XXXI-23-8	ⁱ Pr	*	H	*	ⁱ Pr	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXI-24

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXI-24-1	^t Bu	H	H	H	ⁱ Pr	H	F	F	OH
XXXI-24-2	^t Bu	H	H	CH ₃	ⁱ Pr	H	F	F	OH
XXXI-24-3	^t Bu	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH
XXXI-24-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH
XXXI-24-5	^t Bu	H	H	CH ₂ Ph	ⁱ Pr	H	F	F	OH
XXXI-24-6	^t Bu	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	F	OH
XXXI-24-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	F	OH
XXXI-24-8	^t Bu	*	H	*	ⁱ Pr	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXI-25

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXI-25-1	Ph	H	H	H	ⁱ Pr	H	F	F	OH
XXXI-25-2	Ph	H	H	CH ₃	ⁱ Pr	H	F	F	OH
XXXI-25-3	Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH
XXXI-25-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH
XXXI-25-5	Ph	H	H	CH ₂ Ph	ⁱ Pr	H	F	F	OH
XXXI-25-6	Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	F	OH
XXXI-25-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	F	OH
XXXI-25-8	Ph	*	H	*	ⁱ Pr	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXI-26

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXI-26-1	p-Me—Ph	H	H	H	ⁱ Pr	H	F	F	OH
XXXI-26-2	p-Me—Ph	H	H	CH ₃	ⁱ Pr	H	F	F	OH
XXXI-26-3	p-Me—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH
XXXI-26-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH
XXXI-26-5	p-Me—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	F	F	OH
XXXI-26-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	F	OH
XXXI-26-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	F	OH
XXXI-26-8	p-Me—Ph	*	H	*	ⁱ Pr	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXI-27

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXI-27-1	p-F—Ph	H	H	H	ⁱ Pr	H	F	F	OH
XXXI-27-2	p-F—Ph	H	H	CH ₃	ⁱ Pr	H	F	F	OH
XXXI-27-3	p-F—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH
XXXI-27-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH
XXXI-27-5	p-F—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	F	F	OH

572

TABLE XXXI-27-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXI-27-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	F	OH
XXXI-27-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	F	OH
XXXI-27-8	p-F—Ph	*	H	*	ⁱ Pr	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXI-28

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXI-28-1	p-Cl—Ph	H	H	H	ⁱ Pr	H	F	F	OH
XXXI-28-2	p-Cl—Ph	H	H	CH ₃	ⁱ Pr	H	F	F	OH
XXXI-28-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH
XXXI-28-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH
XXXI-28-5	p-Cl—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	F	F	OH
XXXI-28-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	F	OH
XXXI-28-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	F	OH
XXXI-28-8	p-Cl—Ph	*	H	*	ⁱ Pr	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXI-29

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXI-29-1	p-Br—Ph	H	H	H	ⁱ Pr	H	F	F	OH
XXXI-29-2	p-Br—Ph	H	H	CH ₃	ⁱ Pr	H	F	F	OH
XXXI-29-3	p-Br—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH
XXXI-29-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH
XXXI-29-5	p-Br—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	F	F	OH
XXXI-29-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	F	OH
XXXI-29-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	F	OH
XXXI-29-8	p-Br—Ph	*	H	*	ⁱ Pr	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXI-30

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXI-30-1	p-I—Ph	H	H	H	ⁱ Pr	H	F	F	OH
XXXI-30-2	p-I—Ph	H	H	CH ₃	ⁱ Pr	H	F	F	OH
XXXI-30-3	p-I—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH
XXXI-30-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	F	F	OH
XXXI-30-5	p-I—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	F	F	OH
XXXI-30-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	F	F	OH
XXXI-30-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	F	F	OH
XXXI-30-8	p-I—Ph	*	H	*	ⁱ Pr	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXI-31

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXI-31-1	CH ₃	H	H	H	ⁿ Bu	H	F	F	OH
XXXI-31-2	CH ₃	H	H	CH ₃	ⁿ Bu	H	F	F	OH

573

TABLE XXXI-31-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXI-31-3	CH ₃	H	H	CH(CH ₃) ₂	"Bu	H	F	F	OH
XXXI-31-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	F	OH
XXXI-31-5	CH ₃	H	H	CH ₂ Ph	"Bu	H	F	F	OH
XXXI-31-6	CH ₃	H	H	CH ₂ -indol-3-yl	"Bu	H	F	F	OH
XXXI-31-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	F	OH
XXXI-31-8	CH ₃	*	H	*	"Bu	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXI-32

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXI-32-1	Et	H	H	H	"Bu	H	F	F	OH
XXXI-32-2	Et	H	H	CH ₃	"Bu	H	F	F	OH
XXXI-32-3	Et	H	H	CH(CH ₃) ₂	"Bu	H	F	F	OH
XXXI-32-4	Et	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	F	OH
XXXI-32-5	Et	H	H	CH ₂ Ph	"Bu	H	F	F	OH
XXXI-32-6	Et	H	H	CH ₂ -indol-3-yl	"Bu	H	F	F	OH
XXXI-32-7	Et	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	F	OH
XXXI-32-8	Et	*	H	*	"Bu	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXI-33

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXI-33-1	^t Pr	H	H	H	"Bu	H	F	F	OH
XXXI-33-2	^t Pr	H	H	CH ₃	"Bu	H	F	F	OH
XXXI-33-3	^t Pr	H	H	CH(CH ₃) ₂	"Bu	H	F	F	OH
XXXI-33-4	^t Pr	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	F	OH
XXXI-33-5	^t Pr	H	H	CH ₂ Ph	"Bu	H	F	F	OH
XXXI-33-6	^t Pr	H	H	CH ₂ -indol-3-yl	"Bu	H	F	F	OH
XXXI-33-7	^t Pr	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	F	OH
XXXI-33-8	^t Pr	*	H	*	"Bu	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXI-34

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXI-34-1	^t Bu	H	H	H	"Bu	H	F	F	OH
XXXI-34-2	^t Bu	H	H	CH ₃	"Bu	H	F	F	OH
XXXI-34-3	^t Bu	H	H	CH(CH ₃) ₂	"Bu	H	F	F	OH
XXXI-34-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	F	OH
XXXI-34-5	^t Bu	H	H	CH ₂ Ph	"Bu	H	F	F	OH
XXXI-34-6	^t Bu	H	H	CH ₂ -indol-3-yl	"Bu	H	F	F	OH
XXXI-34-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	F	OH
XXXI-34-8	^t Bu	*	H	*	"Bu	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXI-35

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXI-35-1	Ph	H	H	H	"Bu	H	F	F	OH
XXXI-35-2	Ph	H	H	CH ₃	"Bu	H	F	F	OH
XXXI-35-3	Ph	H	H	CH(CH ₃) ₂	"Bu	H	F	F	OH
XXXI-35-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	F	OH
XXXI-35-5	Ph	H	H	CH ₂ Ph	"Bu	H	F	F	OH
XXXI-35-6	Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	F	F	OH
XXXI-35-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	F	OH
XXXI-35-8	Ph	*	H	*	"Bu	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

574

TABLE XXXI-36

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
5 XXXI-36-1	p-Me—Ph	H	H	H	"Bu	H	F	F	OH
XXXI-36-2	p-Me—Ph	H	H	CH ₃	"Bu	H	F	F	OH
XXXI-36-3	p-Me—Ph	H	H	CH(CH ₃) ₂	"Bu	H	F	F	OH
10 XXXI-36-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	F	OH
XXXI-36-5	p-Me—Ph	H	H	CH ₂ Ph	"Bu	H	F	F	OH
XXXI-36-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	F	F	OH
15 XXXI-36-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	F	OH
XXXI-36-8	p-Me—Ph	*	H	*	"Bu	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXI-37

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
25 XXXI-37-1	p-F—Ph	H	H	H	"Bu	H	F	F	OH
XXXI-37-2	p-F—Ph	H	H	CH ₃	"Bu	H	F	F	OH
XXXI-37-3	p-F—Ph	H	H	CH(CH ₃) ₂	"Bu	H	F	F	OH
30 XXXI-37-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	F	OH
XXXI-37-5	p-F—Ph	H	H	CH ₂ Ph	"Bu	H	F	F	OH
XXXI-37-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	F	F	OH
35 XXXI-37-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	F	OH
XXXI-37-8	p-F—Ph	*	H	*	"Bu	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXI-38

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
45 XXXI-38-1	p-Cl—Ph	H	H	H	"Bu	H	F	F	OH
XXXI-38-2	p-Cl—Ph	H	H	CH ₃	"Bu	H	F	F	OH
XXXI-38-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	"Bu	H	F	F	OH
XXXI-38-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	F	F	OH
50 XXXI-38-5	p-Cl—Ph	H	H	CH ₂ Ph	"Bu	H	F	F	OH
XXXI-38-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	F	F	OH
XXXI-38-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	F	F	OH
55 XXXI-38-8	p-Cl—Ph	*	H	*	"Bu	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXI-39

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXI-39-1	p-Br—Ph	H	H	H	"Bu	H	F	F	OH
65 XXXI-39-2	p-Br—Ph	H	H	CH ₃	"Bu	H	F	F	OH

575

TABLE XXXI-39-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXI-39-3	p-Br—Ph	H	H	CH(CH ₃) ₂	ⁿ Bu	H	F	F	OH
XXXI-39-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	F	F	OH
XXXI-39-5	p-Br—Ph	H	H	CH ₂ Ph	ⁿ Bu	H	F	F	OH
XXXI-39-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	ⁿ Bu	H	F	F	OH
XXXI-39-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	H	F	F	OH
XXXI-39-8	p-Br—Ph	*	H	*	ⁿ Bu	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXI-40

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXI-40-1	p-I—Ph	H	H	H	ⁿ Bu	H	F	F	OH
XXXI-40-2	p-I—Ph	H	H	CH ₃	ⁿ Bu	H	F	F	OH
XXXI-40-3	p-I—Ph	H	H	CH(CH ₃) ₂	ⁿ Bu	H	F	F	OH
XXXI-40-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	F	F	OH
XXXI-40-5	p-I—Ph	H	H	CH ₂ Ph	ⁿ Bu	H	F	F	OH
XXXI-40-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	ⁿ Bu	H	F	F	OH
XXXI-40-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	H	F	F	OH
XXXI-40-8	p-I—Ph	*	H	*	ⁿ Bu	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXI-41

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXI-41-1	CH ₃	H	H	H	Bz	H	F	F	OH
XXXI-41-2	CH ₃	H	H	CH ₃	Bz	H	F	F	OH
XXXI-41-3	CH ₃	H	H	CH(CH ₃) ₂	Bz	H	F	F	OH
XXXI-41-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	F	OH
XXXI-41-5	CH ₃	H	H	CH ₂ Ph	Bz	H	F	F	OH
XXXI-41-6	CH ₃	H	H	CH ₂ -indol-3-yl	Bz	H	F	F	OH
XXXI-41-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	F	OH
XXXI-41-8	CH ₃	*	H	*	Bz	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

576

TABLE XXXI-42

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXI-42-1	Et	H	H	H	Bz	H	F	F	OH
XXXI-42-2	Et	H	H	CH ₃	Bz	H	F	F	OH
XXXI-42-3	Et	H	H	CH(CH ₃) ₂	Bz	H	F	F	OH
XXXI-42-4	Et	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	F	OH
XXXI-42-5	Et	H	H	CH ₂ Ph	Bz	H	F	F	OH
XXXI-42-6	Et	H	H	CH ₂ -indol-3-yl	Bz	H	F	F	OH
XXXI-42-7	Et	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	F	OH
XXXI-42-8	Et	*	H	*	Bz	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXI-43

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXI-43-1	^t Pr	H	H	H	Bz	H	F	F	OH
XXXI-43-2	^t Pr	H	H	CH ₃	Bz	H	F	F	OH
XXXI-43-3	^t Pr	H	H	CH(CH ₃) ₂	Bz	H	F	F	OH
XXXI-43-4	^t Pr	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	F	OH
XXXI-43-5	^t Pr	H	H	CH ₂ Ph	Bz	H	F	F	OH
XXXI-43-6	^t Pr	H	H	CH ₂ -indol-3-yl	Bz	H	F	F	OH
XXXI-43-7	^t Pr	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	F	OH
XXXI-43-8	^t Pr	*	H	*	Bz	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXI-44

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXI-44-1	^t Bu	H	H	H	Bz	H	F	F	OH
XXXI-44-2	^t Bu	H	H	CH ₃	Bz	H	F	F	OH
XXXI-44-3	^t Bu	H	H	CH(CH ₃) ₂	Bz	H	F	F	OH
XXXI-44-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	F	OH
XXXI-44-5	^t Bu	H	H	CH ₂ Ph	Bz	H	F	F	OH
XXXI-44-6	^t Bu	H	H	CH ₂ -indol-3-yl	Bz	H	F	F	OH
XXXI-44-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	F	OH
XXXI-44-8	^t Bu	*	H	*	Bz	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXI-45

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXI-45-1	Ph	H	H	H	Bz	H	F	F	OH
XXXI-45-2	Ph	H	H	CH ₃	Bz	H	F	F	OH
XXXI-45-3	Ph	H	H	CH(CH ₃) ₂	Bz	H	F	F	OH
XXXI-45-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	F	OH
XXXI-45-5	Ph	H	H	CH ₂ Ph	Bz	H	F	F	OH
XXXI-45-6	Ph	H	H	CH ₂ -indol-3-yl	Bz	H	F	F	OH
XXXI-45-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	F	OH
XXXI-45-8	Ph	*	H	*	Bz	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXI-46

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXI-46-1	p-Me—Ph	H	H	H	Bz	H	F	F	OH
XXXI-46-2	p-Me—Ph	H	H	CH ₃	Bz	H	F	F	OH
XXXI-46-3	p-Me—Ph	H	H	CH(CH ₃) ₂	Bz	H	F	F	OH
XXXI-46-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	F	OH
XXXI-46-5	p-Me—Ph	H	H	CH ₂ Ph	Bz	H	F	F	OH
XXXI-46-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	F	F	OH
XXXI-46-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	F	OH
XXXI-46-8	p-Me—Ph	*	H	*	Bz	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

577

TABLE XXXI-47

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXI-47-1	p-F—Ph	H	H	H	Bz	H	F	F	OH
XXXI-47-2	p-F—Ph	H	H	CH ₃	Bz	H	F	F	OH
XXXI-47-3	p-F—Ph	H	H	CH(CH ₃) ₂	Bz	H	F	F	OH
XXXI-47-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	F	OH
XXXI-47-5	p-F—Ph	H	H	CH ₂ Ph	Bz	H	F	F	OH
XXXI-47-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	F	F	OH
XXXI-47-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	F	OH
XXXI-47-8	p-F—Ph	*	H	*	Bz	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

578

TABLE XXXII-1

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXII-1-1	CH ₃	H	H	H	CH ₃	H	H	F	OH
XXXII-1-2	CH ₃	H	H	CH ₃	CH ₃	H	H	F	OH
XXXII-1-3	CH ₃	H	H	CH(CH ₃) ₂	CH ₃	H	H	F	OH
XXXII-1-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	H	F	OH
XXXII-1-5	CH ₃	H	H	CH ₂ Ph	CH ₃	H	H	F	OH
XXXII-1-6	CH ₃	H	H	CH ₂ -indol-3-yl	CH ₃	H	H	F	OH
XXXII-1-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	H	F	OH
XXXII-1-8	CH ₃	*	H	*	CH ₃	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXI-48

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXI-48-1	p-Cl—Ph	H	H	H	Bz	H	F	F	OH
XXXI-48-2	p-Cl—Ph	H	H	CH ₃	Bz	H	F	F	OH
XXXI-48-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	Bz	H	F	F	OH
XXXI-48-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	F	OH
XXXI-48-5	p-Cl—Ph	H	H	CH ₂ Ph	Bz	H	F	F	OH
XXXI-48-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	F	F	OH
XXXI-48-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	F	OH
XXXI-48-8	p-Cl—Ph	*	H	*	Bz	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXI-49

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXI-49-1	p-Br—Ph	H	H	H	Bz	H	F	F	OH
XXXI-49-2	p-Br—Ph	H	H	CH ₃	Bz	H	F	F	OH
XXXI-49-3	p-Br—Ph	H	H	CH(CH ₃) ₂	Bz	H	F	F	OH
XXXI-49-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	F	OH
XXXI-49-5	p-Br—Ph	H	H	CH ₂ Ph	Bz	H	F	F	OH
XXXI-49-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	F	F	OH
XXXI-49-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	F	OH
XXXI-49-8	p-Br—Ph	*	H	*	Bz	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXI-50

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXI-50-1	p-I—Ph	H	H	H	Bz	H	F	F	OH
XXXI-50-2	p-I—Ph	H	H	CH ₃	Bz	H	F	F	OH
XXXI-50-3	p-I—Ph	H	H	CH(CH ₃) ₂	Bz	H	F	F	OH
XXXI-50-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	F	F	OH
XXXI-50-5	p-I—Ph	H	H	CH ₂ Ph	Bz	H	F	F	OH
XXXI-50-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	F	F	OH
XXXI-50-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	F	F	OH
XXXI-50-8	p-I—Ph	*	H	*	Bz	H	F	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

40

TABLE XXXII-2

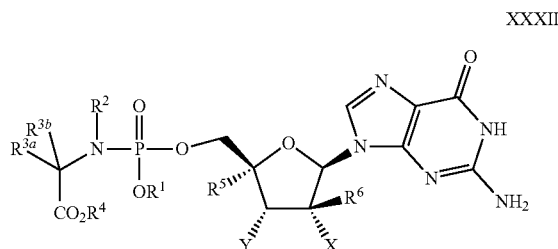
No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXII-2-1	Et	H	H	H	CH ₃	H	H	F	OH
XXXII-2-2	Et	H	H	CH ₃	CH ₃	H	H	F	OH
XXXII-2-3	Et	H	H	CH(CH ₃) ₂	CH ₃	H	H	F	OH
XXXII-2-4	Et	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	H	F	OH
XXXII-2-5	Et	H	H	CH ₂ Ph	CH ₃	H	H	F	OH
XXXII-2-6	Et	H	H	CH ₂ -indol-3-yl	CH ₃	H	H	F	OH
XXXII-2-7	Et	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	H	F	OH
XXXII-2-8	Et	*	H	*	CH ₃	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

55

TABLE XXXII-3

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXII-3-1	ⁱ Pr	H	H	H	CH ₃	H	H	F	OH
XXXII-3-2	ⁱ Pr	H	H	CH ₃	CH ₃	H	H	F	OH
XXXII-3-3	ⁱ Pr	H	H	CH(CH ₃) ₂	CH ₃	H	H	F	OH
XXXII-3-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	H	F	OH
XXXII-3-5	ⁱ Pr	H	H	CH ₂ Ph	CH ₃	H	H	F	OH
XXXII-3-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	CH ₃	H	H	F	OH
XXXII-3-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	H	F	OH
XXXII-3-8	ⁱ Pr	*	H	*	CH ₃	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

579

TABLE XXXII-4

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXII-4-1	^t Bu	H	H	H	CH ₃	H	H	F	OH
XXXII-4-2	^t Bu	H	H	CH ₃	CH ₃	H	H	F	OH
XXXII-4-3	^t Bu	H	H	CH(CH ₃) ₂	CH ₃	H	H	F	OH
XXXII-4-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	H	F	OH
XXXII-4-5	^t Bu	H	H	CH ₂ Ph	CH ₃	H	H	F	OH
XXXII-4-6	^t Bu	H	H	CH ₂ -indol-3-yl	CH ₃	H	H	F	OH
XXXII-4-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	H	F	OH
XXXII-4-8	^t Bu	*	H	*	CH ₃	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

580

TABLE XXXII-5

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXII-5-1	Ph	H	H	H	CH ₃	H	H	F	OH
XXXII-5-2	Ph	H	H	CH ₃	CH ₃	H	H	F	OH
XXXII-5-3	Ph	H	H	CH(CH ₃) ₂	CH ₃	H	H	F	OH
XXXII-5-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	H	F	OH
XXXII-5-5	Ph	H	H	CH ₂ Ph	CH ₃	H	H	F	OH
XXXII-5-6	Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	H	F	OH
XXXII-5-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	H	F	OH
XXXII-5-8	Ph	*	H	*	CH ₃	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXII-6

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXII-6-1	p-Me—Ph	H	H	H	CH ₃	H	H	F	OH
XXXII-6-2	p-Me—Ph	H	H	CH ₃	CH ₃	H	H	F	OH
XXXII-6-3	p-Me—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	H	F	OH
XXXII-6-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	H	F	OH
XXXII-6-5	p-Me—Ph	H	H	CH ₂ Ph	CH ₃	H	H	F	OH
XXXII-6-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	H	F	OH
XXXII-6-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	H	F	OH
XXXII-6-8	p-Me—Ph	*	H	*	CH ₃	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXII-7

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXII-7-1	p-F—Ph	H	H	H	CH ₃	H	H	F	OH
XXXII-7-2	p-F—Ph	H	H	CH ₃	CH ₃	H	H	F	OH
XXXII-7-3	p-F—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	H	F	OH
XXXII-7-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	H	F	OH
XXXII-7-6	p-F—Ph	H	H	CH ₂ Ph	CH ₃	H	H	F	OH
XXXII-7-7	p-F—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	H	F	OH
XXXII-7-8	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	H	F	OH
XXXII-7-20	p-F—Ph	*	H	*	CH ₃	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXII-8

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXII-8-1	p-Cl—Ph	H	H	H	CH ₃	H	H	F	OH
XXXII-8-2	p-Cl—Ph	H	H	CH ₃	CH ₃	H	H	F	OH
XXXII-8-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	H	F	OH
XXXII-8-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	H	F	OH
XXXII-8-5	p-Cl—Ph	H	H	CH ₂ Ph	CH ₃	H	H	F	OH
XXXII-8-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	H	F	OH
XXXII-8-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	H	F	OH
XXXII-8-8	p-Cl—Ph	*	H	*	CH ₃	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXII-9

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXII-9-1	p-Br—Ph	H	H	H	CH ₃	H	H	F	OH
XXXII-9-2	p-Br—Ph	H	H	CH ₃	CH ₃	H	H	F	OH
XXXII-9-3	p-Br—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	H	F	OH
XXXII-9-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	H	F	OH
XXXII-9-6	p-Br—Ph	H	H	CH ₂ Ph	CH ₃	H	H	F	OH
XXXII-9-7	p-Br—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	H	F	OH
XXXII-9-8	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	H	F	OH
XXXII-9-20	p-Br—Ph	*	H	*	CH ₃	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXII-10

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXII-10-1	p-I—Ph	H	H	H	CH ₃	H	H	F	OH
XXXII-10-2	p-I—Ph	H	H	CH ₃	CH ₃	H	H	F	OH
XXXII-10-3	p-I—Ph	H	H	CH(CH ₃) ₂	CH ₃	H	H	F	OH
XXXII-10-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	CH ₃	H	H	F	OH
XXXII-10-5	p-I—Ph	H	H	CH ₂ Ph	CH ₃	H	H	F	OH
XXXII-10-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	CH ₃	H	H	F	OH
XXXII-10-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	CH ₃	H	H	F	OH
XXXII-10-8	p-I—Ph	*	H	*	CH ₃	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXII-11

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXII-11-1	CH ₃	H	H	H	Et	H	H	F	OH
XXXII-11-2	CH ₃	H	H	CH ₃	Et	H	H	F	OH
XXXII-11-3	CH ₃	H	H	CH(CH ₃) ₂	Et	H	H	F	OH
XXXII-11-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	Et	H	H	F	OH
XXXII-11-5	CH ₃	H	H	CH ₂ Ph	Et	H	H	F	OH
XXXII-11-6	CH ₃	H	H	CH ₂ -indol-3-yl	Et	H	H	F	OH
XXXII-11-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	Et	H	H	F	OH
XXXII-11-8	CH ₃	*	H	*	Et	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXII-12

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXII-12-1	Et	H	H	H	Et	H	H	F	OH
XXXII-12-2	Et	H	H	CH ₃	Et	H	H	F	OH
XXXII-12-3	Et	H	H	CH(CH ₃) ₂	Et	H	H	F	OH
XXXII-12-4	Et	H	H	CH ₂ CH(CH ₃) ₂	Et	H	H	F	OH
XXXII-12-5	Et	H	H	CH ₂ Ph	Et	H	H	F	OH
XXXII-12-6	Et	H	H	CH ₂ -indol-3-yl	Et	H	H	F	OH
XXXII-12-7	Et	H	H	CH ₂ CH ₂ SCH ₃	Et	H	H	F	OH
XXXII-12-8	Et	*	H	*	Et	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXII-13

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXII-13-1	^t Pr	H	H	H	Et	H	H	F	OH
XXXII-13-2	^t Pr	H	H	CH ₃	Et	H	H	F	OH
XXXII-13-3	^t Pr	H	H	CH(CH ₃) ₂	Et	H	H	F	OH
XXXII-13-4	^t Pr	H	H	CH ₂ CH(CH ₃) ₂	Et	H	H	F	OH
XXXII-13-5	^t Pr	H	H	CH ₂ Ph	Et	H	H	F	OH

TABLE XXXII-13-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXII-13-6	^t Pr	H	H	CH ₂ -indol-3-yl	Et	H	H	F	OH
XXXII-13-7	^t Pr	H	H	CH ₂ CH ₂ SCH ₃	Et	H	H	F	OH
XXXII-13-8	^t Pr	*	H	*	Et	H	H	F	OH

20 *R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXII-14

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXII-14-1	^t Bu	H	H	H	Et	H	H	F	OH
XXXII-14-2	^t Bu	H	H	CH ₃	Et	H	H	F	OH
XXXII-14-3	^t Bu	H	H	CH(CH ₃) ₂	Et	H	H	F	OH
XXXII-14-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	Et	H	H	F	OH
XXXII-14-5	^t Bu	H	H	CH ₂ Ph	Et	H	H	F	OH
XXXII-14-6	^t Bu	H	H	CH ₂ -indol-3-yl	Et	H	H	F	OH
XXXII-14-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	Et	H	H	F	OH
XXXII-14-8	^t Bu	*	H	*	Et	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXII-15

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXII-15-1	Ph	H	H	H	Et	H	H	F	OH
XXXII-15-2	Ph	H	H	CH ₃	Et	H	H	F	OH
XXXII-15-3	Ph	H	H	CH(CH ₃) ₂	Et	H	H	F	OH
XXXII-15-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	H	F	OH
XXXII-15-5	Ph	H	H	CH ₂ Ph	Et	H	H	F	OH
XXXII-15-6	Ph	H	H	CH ₂ -indol-3-yl	Et	H	H	F	OH
XXXII-15-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	H	F	OH
XXXII-15-8	Ph	*	H	*	Et	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXII-16

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXII-16-1	p-Me—Ph	H	H	H	Et	H	H	F	OH
XXXII-16-2	p-Me—Ph	H	H	CH ₃	Et	H	H	F	OH
XXXII-16-3	p-Me—Ph	H	H	CH(CH ₃) ₂	Et	H	H	F	OH
XXXII-16-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	H	F	OH
XXXII-16-5	p-Me—Ph	H	H	CH ₂ Ph	Et	H	H	F	OH
XXXII-16-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	Et	H	H	F	OH
XXXII-16-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	H	F	OH
XXXII-16-8	p-Me—Ph	*	H	*	Et	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

583

TABLE XXXII-17

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXII-17-1	p-F—Ph	H	H	H	Et	H	H	F	OH
XXXII-17-2	p-F—Ph	H	H	CH ₃	Et	H	H	F	OH
XXXII-17-3	p-F—Ph	H	H	CH(CH ₃) ₂	Et	H	H	F	OH
XXXII-17-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	H	F	OH
XXXII-17-5	p-F—Ph	H	H	CH ₂ Ph	Et	H	H	F	OH
XXXII-17-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	Et	H	H	F	OH
XXXII-17-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	H	F	OH
XXXII-17-8	p-F—Ph	*	H	*	Et	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

584

TABLE XXXII-22

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXII-22-1	Et	H	H	H	ⁱ Pr	H	H	F	OH
XXXII-22-2	Et	H	H	CH ₃	ⁱ Pr	H	H	F	OH
XXXII-22-3	Et	H	H	CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH
XXXII-22-4	Et	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH
XXXII-22-5	Et	H	H	CH ₂ Ph	ⁱ Pr	H	H	F	OH
XXXII-22-6	Et	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	H	F	OH
XXXII-22-7	Et	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	H	F	OH
XXXII-22-8	Et	*	H	*	ⁱ Pr	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXII-18

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXII-18-1	p-Cl—Ph	H	H	H	Et	H	H	F	OH
XXXII-18-2	p-Cl—Ph	H	H	CH ₃	Et	H	H	F	OH
XXXII-18-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	Et	H	H	F	OH
XXXII-18-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	H	F	OH
XXXII-18-5	p-Cl—Ph	H	H	CH ₂ Ph	Et	H	H	F	OH
XXXII-18-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	Et	H	H	F	OH
XXXII-18-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	H	F	OH
XXXII-18-8	p-Cl—Ph	*	H	*	Et	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXII-19

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXII-19-1	p-Br—Ph	H	H	H	Et	H	H	F	OH
XXXII-19-2	p-Br—Ph	H	H	CH ₃	Et	H	H	F	OH
XXXII-19-3	p-Br—Ph	H	H	CH(CH ₃) ₂	Et	H	H	F	OH
XXXII-19-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	H	F	OH
XXXII-19-5	p-Br—Ph	H	H	CH ₂ Ph	Et	H	H	F	OH
XXXII-19-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	Et	H	H	F	OH
XXXII-19-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	H	F	OH
XXXII-19-8	p-Br—Ph	*	H	*	Et	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXII-20

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXII-20-1	p-I—Ph	H	H	H	Et	H	H	F	OH
XXXII-20-2	p-I—Ph	H	H	CH ₃	Et	H	H	F	OH
XXXII-20-3	p-I—Ph	H	H	CH(CH ₃) ₂	Et	H	H	F	OH
XXXII-20-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	Et	H	H	F	OH
XXXII-20-5	p-I—Ph	H	H	CH ₂ Ph	Et	H	H	F	OH
XXXII-20-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	Et	H	H	F	OH
XXXII-20-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	Et	H	H	F	OH
XXXII-20-8	p-I—Ph	*	H	*	Et	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXII-21

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXII-21-1	CH ₃	H	H	H	ⁱ Pr	H	H	F	OH
XXXII-21-2	CH ₃	H	H	CH ₃	ⁱ Pr	H	H	F	OH
XXXII-21-3	CH ₃	H	H	CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH
XXXII-21-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH
XXXII-21-5	CH ₃	H	H	CH ₂ Ph	ⁱ Pr	H	H	F	OH
XXXII-21-6	CH ₃	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	H	F	OH
XXXII-21-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	H	F	OH
XXXII-21-8	CH ₃	*	H	*	ⁱ Pr	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

40

TABLE XXXII-23

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXII-23-1	ⁱ Pr	H	H	H	ⁱ Pr	H	H	F	OH
XXXII-23-2	ⁱ Pr	H	H	CH ₃	ⁱ Pr	H	H	F	OH
XXXII-23-3	ⁱ Pr	H	H	CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH
XXXII-23-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH
XXXII-23-5	ⁱ Pr	H	H	CH ₂ Ph	ⁱ Pr	H	H	F	OH
XXXII-23-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	H	F	OH
XXXII-23-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	H	F	OH
XXXII-23-8	ⁱ Pr	*	H	*	ⁱ Pr	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

55

TABLE XXXII-24

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXII-24-1	^t Bu	H	H	H	ⁱ Pr	H	H	F	OH
XXXII-24-2	^t Bu	H	H	CH ₃	ⁱ Pr	H	H	F	OH
XXXII-24-3	^t Bu	H	H	CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH
XXXII-24-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH
XXXII-24-5	^t Bu	H	H	CH ₂ Ph	ⁱ Pr	H	H	F	OH
XXXII-24-6	^t Bu	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	H	F	OH
XXXII-24-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	H	F	OH
XXXII-24-8	^t Bu	*	H	*	ⁱ Pr	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

585

TABLE XXXII-25

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXII-25-1	Ph	H	H	H	ⁱ Pr	H	H	F	OH
XXXII-25-2	Ph	H	H	CH ₃	ⁱ Pr	H	H	F	OH
XXXII-25-3	Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH
XXXII-25-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH
XXXII-25-5	Ph	H	H	CH ₂ Ph	ⁱ Pr	H	H	F	OH
XXXII-25-6	Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	H	F	OH
XXXII-25-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	H	F	OH
XXXII-25-8	Ph	*	H	*	ⁱ Pr	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXII-26

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXII-26-1	p-Me—Ph	H	H	H	ⁱ Pr	H	H	F	OH
XXXII-26-2	p-Me—Ph	H	H	CH ₃	ⁱ Pr	H	H	F	OH
XXXII-26-3	p-Me—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH
XXXII-26-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH
XXXII-26-5	p-Me—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	H	F	OH
XXXII-26-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	H	F	OH
XXXII-26-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	H	F	OH
XXXII-26-8	p-Me—Ph	*	H	*	ⁱ Pr	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXII-27

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXII-27-1	p-F—Ph	H	H	H	ⁱ Pr	H	H	F	OH
XXXII-27-2	p-F—Ph	H	H	CH ₃	ⁱ Pr	H	H	F	OH
XXXII-27-3	p-F—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH
XXXII-27-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH
XXXII-27-5	p-F—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	H	F	OH
XXXII-27-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	H	F	OH
XXXII-27-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	H	F	OH
XXXII-27-8	p-F—Ph	*	H	*	ⁱ Pr	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXII-28

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXII-28-1	p-Cl—Ph	H	H	H	ⁱ Pr	H	H	F	OH
XXXII-28-2	p-Cl—Ph	H	H	CH ₃	ⁱ Pr	H	H	F	OH
XXXII-28-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH
XXXII-28-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH
XXXII-28-5	p-Cl—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	H	F	OH
XXXII-28-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	H	F	OH
XXXII-28-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	H	F	OH
XXXII-28-8	p-Cl—Ph	*	H	*	ⁱ Pr	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

586

TABLE XXXII-29

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXII-29-1	p-Br—Ph	H	H	H	ⁱ Pr	H	H	F	OH
XXXII-29-2	p-Br—Ph	H	H	CH ₃	ⁱ Pr	H	H	F	OH
XXXII-29-3	p-Br—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH
XXXII-29-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH
XXXII-29-5	p-Br—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	H	F	OH
XXXII-29-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	H	F	OH
XXXII-29-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	H	F	OH
XXXII-29-8	p-Br—Ph	*	H	*	ⁱ Pr	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXII-30

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXII-30-1	p-I—Ph	H	H	H	ⁱ Pr	H	H	F	OH
XXXII-30-2	p-I—Ph	H	H	CH ₃	ⁱ Pr	H	H	F	OH
XXXII-30-3	p-I—Ph	H	H	CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH
XXXII-30-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	ⁱ Pr	H	H	F	OH
XXXII-30-5	p-I—Ph	H	H	CH ₂ Ph	ⁱ Pr	H	H	F	OH
XXXII-30-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	ⁱ Pr	H	H	F	OH
XXXII-30-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	ⁱ Pr	H	H	F	OH
XXXII-30-8	p-I—Ph	*	H	*	ⁱ Pr	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXII-31

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXII-31-1	CH ₃	H	H	H	ⁿ Bu	H	H	F	OH
XXXII-31-2	CH ₃	H	H	CH ₃	ⁿ Bu	H	H	F	OH
XXXII-31-3	CH ₃	H	H	CH(CH ₃) ₂	ⁿ Bu	H	H	F	OH
XXXII-31-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	H	F	OH
XXXII-31-5	CH ₃	H	H	CH ₂ Ph	ⁿ Bu	H	H	F	OH
XXXII-31-6	CH ₃	H	H	CH ₂ -indol-3-yl	ⁿ Bu	H	H	F	OH
XXXII-31-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	H	H	F	OH
XXXII-31-8	CH ₃	*	H	*	ⁿ Bu	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXII-32

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXII-32-1	Et	H	H	H	ⁿ Bu	H	H	F	OH
XXXII-32-2	Et	H	H	CH ₃	ⁿ Bu	H	H	F	OH
XXXII-32-3	Et	H	H	CH(CH ₃) ₂	ⁿ Bu	H	H	F	OH
XXXII-32-4	Et	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	H	F	OH
XXXII-32-5	Et	H	H	CH ₂ Ph	ⁿ Bu	H	H	F	OH
XXXII-32-6	Et	H	H	CH ₂ -indol-3-yl	ⁿ Bu	H	H	F	OH
XXXII-32-7	Et	H	H	CH ₂ CH ₂ SCH ₃	ⁿ Bu	H	H	F	OH
XXXII-32-8	Et	*	H	*	ⁿ Bu	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXII-33

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXII-33-1	ⁱ Pr	H	H	H	ⁿ Bu	H	H	F	OH
XXXII-33-2	ⁱ Pr	H	H	CH ₃	ⁿ Bu	H	H	F	OH
XXXII-33-3	ⁱ Pr	H	H	CH(CH ₃) ₂	ⁿ Bu	H	H	F	OH
XXXII-33-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	ⁿ Bu	H	H	F	OH
XXXII-33-5	ⁱ Pr	H	H	CH ₂ Ph	ⁿ Bu	H	H	F	OH

587

TABLE XXXII-33-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXII-33-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	"Bu	H	H	F	OH
XXXII-33-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	H	F	OH
XXXII-33-8	ⁱ Pr	*	H	*	"Bu	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXII-34

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXII-34-1	"Bu	H	H	H	"Bu	H	H	F	OH
XXXII-34-2	"Bu	H	H	CH ₃	"Bu	H	H	F	OH
XXXII-34-3	"Bu	H	H	CH(CH ₃) ₂	"Bu	H	H	F	OH
XXXII-34-4	"Bu	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	H	F	OH
XXXII-34-5	"Bu	H	H	CH ₂ Ph	"Bu	H	H	F	OH
XXXII-34-6	"Bu	H	H	CH ₂ -indol-3-yl	"Bu	H	H	F	OH
XXXII-34-7	"Bu	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	H	F	OH
XXXII-34-8	"Bu	*	H	*	"Bu	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXII-35

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXII-35-1	Ph	H	H	H	"Bu	H	H	F	OH
XXXII-35-2	Ph	H	H	CH ₃	"Bu	H	H	F	OH
XXXII-35-3	Ph	H	H	CH(CH ₃) ₂	"Bu	H	H	F	OH
XXXII-35-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	H	F	OH
XXXII-35-5	Ph	H	H	CH ₂ Ph	"Bu	H	H	F	OH
XXXII-35-6	Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	H	F	OH
XXXII-35-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	H	F	OH
XXXII-35-8	Ph	*	H	*	"Bu	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXII-36

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXII-36-1	p-Me—Ph	H	H	H	"Bu	H	H	F	OH
XXXII-36-2	p-Me—Ph	H	H	CH ₃	"Bu	H	H	F	OH
XXXII-36-3	p-Me—Ph	H	H	CH(CH ₃) ₂	"Bu	H	H	F	OH
XXXII-36-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	H	F	OH
XXXII-36-5	p-Me—Ph	H	H	CH ₂ Ph	"Bu	H	H	F	OH
XXXII-36-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	H	F	OH
XXXII-36-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	H	F	OH
XXXII-36-8	p-Me—Ph	*	H	*	"Bu	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXII-37

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXII-37-1	p-F—Ph	H	H	H	"Bu	H	H	F	OH
XXXII-37-2	p-F—Ph	H	H	CH ₃	"Bu	H	H	F	OH
XXXII-37-3	p-F—Ph	H	H	CH(CH ₃) ₂	"Bu	H	H	F	OH
XXXII-37-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	H	F	OH
XXXII-37-5	p-F—Ph	H	H	CH ₂ Ph	"Bu	H	H	F	OH
XXXII-37-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	H	F	OH
XXXII-37-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	H	F	OH
XXXII-37-8	p-F—Ph	*	H	*	"Bu	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

588

TABLE XXXII-38

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
5 XXXII-38-1	p-Cl—Ph	H	H	H	"Bu	H	H	F	OH
XXXII-38-2	p-Cl—Ph	H	H	CH ₃	"Bu	H	H	F	OH
XXXII-38-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	"Bu	H	H	F	OH
10 XXXII-38-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	H	F	OH
XXXII-38-5	p-Cl—Ph	H	H	CH ₂ Ph	"Bu	H	H	F	OH
XXXII-38-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	H	F	OH
15 XXXII-38-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	H	F	OH
XXXII-38-8	p-Cl—Ph	*	H	*	"Bu	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXII-39

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
25 XXXII-39-1	p-Br—Ph	H	H	H	"Bu	H	H	F	OH
XXXII-39-2	p-Br—Ph	H	H	CH ₃	"Bu	H	H	F	OH
30 XXXII-39-3	p-Br—Ph	H	H	CH(CH ₃) ₂	"Bu	H	H	F	OH
XXXII-39-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	H	F	OH
XXXII-39-5	p-Br—Ph	H	H	CH ₂ Ph	"Bu	H	H	F	OH
35 XXXII-39-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	H	F	OH
XXXII-39-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	H	F	OH
XXXII-39-8	p-Br—Ph	*	H	*	"Bu	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXII-40

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
45 XXXII-40-1	p-I—Ph	H	H	H	"Bu	H	H	F	OH
XXXII-40-2	p-I—Ph	H	H	CH ₃	"Bu	H	H	F	OH
XXXII-40-3	p-I—Ph	H	H	CH(CH ₃) ₂	"Bu	H	H	F	OH
XXXII-40-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	"Bu	H	H	F	OH
XXXII-40-5	p-I—Ph	H	H	CH ₂ Ph	"Bu	H	H	F	OH
50 XXXII-40-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	"Bu	H	H	F	OH
XXXII-40-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	"Bu	H	H	F	OH
XXXII-40-8	p-I—Ph	*	H	*	"Bu	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXII-41

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXII-41-1	CH ₃	H	H	H	Bz	H	H	F	OH
XXXII-41-2	CH ₃	H	H	CH ₃	Bz	H	H	F	OH
60 XXXII-41-3	CH ₃	H	H	CH(CH ₃) ₂	Bz	H	H	F	OH
XXXII-41-4	CH ₃	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	H	F	OH
XXXII-41-5	CH ₃	H	H	CH ₂ Ph	Bz	H	H	F	OH
XXXII-41-6	CH ₃	H	H	CH ₂ -indol-3-yl	Bz	H	H	F	OH
XXXII-41-7	CH ₃	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	H	F	OH
65 XXXII-41-8	CH ₃	*	H	*	Bz	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

589

TABLE XXXII-42

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXII-42-1	Et	H	H	H	Bz	H	H	F	OH
XXXII-42-2	Et	H	H	CH ₃	Bz	H	H	F	OH
XXXII-42-3	Et	H	H	CH(CH ₃) ₂	Bz	H	H	F	OH
XXXII-42-4	Et	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	H	F	OH
XXXII-42-5	Et	H	H	CH ₂ Ph	Bz	H	H	F	OH
XXXII-42-6	Et	H	H	CH ₂ -indol-3-yl	Bz	H	H	F	OH
XXXII-42-7	Et	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	H	F	OH
XXXII-42-8	Et	*	H	*	Bz	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXII-43

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXII-43-1	ⁱ Pr	H	H	H	Bz	H	H	F	OH
XXXII-43-2	ⁱ Pr	H	H	CH ₃	Bz	H	H	F	OH
XXXII-43-3	ⁱ Pr	H	H	CH(CH ₃) ₂	Bz	H	H	F	OH
XXXII-43-4	ⁱ Pr	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	H	F	OH
XXXII-43-5	ⁱ Pr	H	H	CH ₂ Ph	Bz	H	H	F	OH
XXXII-43-6	ⁱ Pr	H	H	CH ₂ -indol-3-yl	Bz	H	H	F	OH
XXXII-43-7	ⁱ Pr	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	H	F	OH
XXXII-43-8	ⁱ Pr	*	H	*	Bz	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXII-44

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXII-44-1	^t Bu	H	H	H	Bz	H	H	F	OH
XXXII-44-2	^t Bu	H	H	CH ₃	Bz	H	H	F	OH
XXXII-44-3	^t Bu	H	H	CH(CH ₃) ₂	Bz	H	H	F	OH
XXXII-44-4	^t Bu	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	H	F	OH
XXXII-44-5	^t Bu	H	H	CH ₂ Ph	Bz	H	H	F	OH
XXXII-44-6	^t Bu	H	H	CH ₂ -indol-3-yl	Bz	H	H	F	OH
XXXII-44-7	^t Bu	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	H	F	OH
XXXII-44-8	^t Bu	*	H	*	Bz	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXII-45

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXII-45-1	Ph	H	H	H	Bz	H	H	F	OH
XXXII-45-2	Ph	H	H	CH ₃	Bz	H	H	F	OH
XXXII-45-3	Ph	H	H	CH(CH ₃) ₂	Bz	H	H	F	OH
XXXII-45-4	Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	H	F	OH
XXXII-45-5	Ph	H	H	CH ₂ Ph	Bz	H	H	F	OH
XXXII-45-6	Ph	H	H	CH ₂ -indol-3-yl	Bz	H	H	F	OH
XXXII-45-7	Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	H	F	OH
XXXII-45-8	Ph	*	H	*	Bz	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXII-46

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXII-46-1	p-Me—Ph	H	H	H	Bz	H	H	F	OH
XXXII-46-2	p-Me—Ph	H	H	CH ₃	Bz	H	H	F	OH
XXXII-46-3	p-Me—Ph	H	H	CH(CH ₃) ₂	Bz	H	H	F	OH
XXXII-46-4	p-Me—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	H	F	OH
XXXII-46-5	p-Me—Ph	H	H	CH ₂ Ph	Bz	H	H	F	OH
XXXII-46-6	p-Me—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	H	F	OH

590

TABLE XXXII-46-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXII-46-7	p-Me—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	H	F	OH
XXXII-46-8	p-Me—Ph	*	H	*	Bz	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXII-47

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXII-47-1	p-F—Ph	H	H	H	Bz	H	H	F	OH
XXXII-47-2	p-F—Ph	H	H	CH ₃	Bz	H	H	F	OH
XXXII-47-3	p-F—Ph	H	H	CH(CH ₃) ₂	Bz	H	H	F	OH
XXXII-47-4	p-F—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	H	F	OH
XXXII-47-5	p-F—Ph	H	H	CH ₂ Ph	Bz	H	H	F	OH
XXXII-47-6	p-F—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	H	F	OH
XXXII-47-7	p-F—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	H	F	OH
XXXII-47-8	p-F—Ph	*	H	*	Bz	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXII-48

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXII-48-1	p-Cl—Ph	H	H	H	Bz	H	H	F	OH
XXXII-48-2	p-Cl—Ph	H	H	CH ₃	Bz	H	H	F	OH
XXXII-48-3	p-Cl—Ph	H	H	CH(CH ₃) ₂	Bz	H	H	F	OH
XXXII-48-4	p-Cl—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	H	F	OH
XXXII-48-5	p-Cl—Ph	H	H	CH ₂ Ph	Bz	H	H	F	OH
XXXII-48-6	p-Cl—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	H	F	OH
XXXII-48-7	p-Cl—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	H	F	OH
XXXII-48-8	p-Cl—Ph	*	H	*	Bz	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXII-49

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXII-49-1	p-Br—Ph	H	H	H	Bz	H	H	F	OH
XXXII-49-2	p-Br—Ph	H	H	CH ₃	Bz	H	H	F	OH
XXXII-49-3	p-Br—Ph	H	H	CH(CH ₃) ₂	Bz	H	H	F	OH
XXXII-49-4	p-Br—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	H	F	OH
XXXII-49-5	p-Br—Ph	H	H	CH ₂ Ph	Bz	H	H	F	OH
XXXII-49-6	p-Br—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	H	F	OH
XXXII-49-7	p-Br—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	H	F	OH
XXXII-49-8	p-Br—Ph	*	H	*	Bz	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

TABLE XXXII-50

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXII-50-1	p-I—Ph	H	H	H	Bz	H	H	F	OH
XXXII-50-2	p-I—Ph	H	H	CH ₃	Bz	H	H	F	OH

TABLE XXXII-50-continued

No	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	R ⁵	R ⁶	X	Y
XXXII-50-3	p-I—Ph	H	H	CH(CH ₃) ₂	Bz	H	H	F	OH
XXXII-50-4	p-I—Ph	H	H	CH ₂ CH(CH ₃) ₂	Bz	H	H	F	OH
XXXII-50-5	p-I—Ph	H	H	CH ₂ Ph	Bz	H	H	F	OH
XXXII-50-6	p-I—Ph	H	H	CH ₂ -indol-3-yl	Bz	H	H	F	OH
XXXII-50-7	p-I—Ph	H	H	CH ₂ CH ₂ SCH ₃	Bz	H	H	F	OH
XXXII-50-8	p-I—Ph	*	H	*	Bz	H	H	F	OH

*R² and R^{3b} joined together by (CH₂)₃ to form five-membered ring.

Dosage, Administration, and Use

A sixth embodiment of the present invention is directed to a composition for the treatment of any of the viral agents disclosed herein said composition comprising a pharmaceutically acceptable medium selected from among an excipient, carrier, diluent, and equivalent medium and a compound, that is intended to include its salts (acid or basic addition salts), hydrates, solvates, and crystalline forms can be obtained, represented by formula I.

It is contemplated that the formulation of the sixth embodiment can contain any of the compounds contemplated in any of the aspects of the first, second, third, fourth, and fifth embodiments or those specifically recited in the tables above or exemplified herein, either alone or in combination with another compound of the present invention.

The compounds of the present invention may be formulated in a wide variety of oral administration dosage forms and carriers. Oral administration can be in the form of tablets, coated tablets, hard and soft gelatin capsules, solutions, emulsions, syrups, or suspensions. Compounds of the present invention are efficacious when administered by suppository administration, among other routes of administration. The most convenient manner of administration is generally oral using a convenient daily dosing regimen which can be adjusted according to the severity of the disease and the patient's response to the antiviral medication.

A compound or compounds of the present invention, as well as their pharmaceutically acceptable salts, together with one or more conventional excipients, carriers, or diluents, may be placed into the form of pharmaceutical compositions and unit dosages. The pharmaceutical compositions and unit dosage forms may be comprised of conventional ingredients in conventional proportions, with or without additional active compounds and the unit dosage forms may contain any suitable effective amount of the active ingredient commensurate with the intended daily dosage range to be employed. The pharmaceutical compositions may be employed as solids, such as tablets or filled capsules, semisolids, powders, sustained release formulations, or liquids such as suspensions, emulsions, or filled capsules for oral use; or in the form of suppositories for rectal or vaginal administration. A typical preparation will contain from about 5% to about 95% active compound or compounds (w/w). The term "preparation" or "dosage form" is intended to include both solid and liquid formulations of the active compound and one skilled in the art will appreciate that an active ingredient can exist in different preparations depending on the desired dose and pharmacokinetic parameters.

The term "excipient" as used herein refers to a compound that is used to prepare a pharmaceutical composition, and is generally safe, non-toxic and neither biologically nor otherwise undesirable, and includes excipients that are acceptable for veterinary use as well as human pharmaceutical use. The compounds of this invention can be administered alone but will generally be administered in admixture with one or more suitable pharmaceutical excipients, diluents or carriers selected with regard to the intended route of administration and standard pharmaceutical practice.

A "pharmaceutically acceptable salt" form of an active ingredient may also initially confer a desirable pharmacokinetic property on the active ingredient which were absent in the non-salt form, and may even positively affect the pharmacodynamics of the active ingredient with respect to its therapeutic activity in the body. The phrase "pharmaceutically acceptable salt" of a compound as used herein means a salt that is pharmaceutically acceptable and that possesses the desired pharmacological activity of the parent compound.

Such salts include: (1) acid addition salts, formed with inorganic acids such as hydrochloric acid, hydrobromic acid, sulfuric acid, nitric acid, phosphoric acid, and the like; or formed with organic acids such as glycolic acid, pyruvic acid, lactic acid, malonic acid, malic acid, maleic acid, fumaric acid, tartaric acid, citric acid, 3-(4-hydroxybenzoyl)benzoic acid, cinnamic acid, mandelic acid, methanesulfonic acid, ethanesulfonic acid, 1,2-ethane-disulfonic acid, 2-hydroxyethanesulfonic acid, benzenesulfonic acid, 4-chlorobenzenesulfonic acid, 2-naphthalenesulfonic acid, 4-toluenesulfonic acid, camphorsulfonic acid, lauryl sulfuric acid, gluconic acid, glutamic acid, salicylic acid, muconic acid, and the like or (2) basic addition salts formed with the conjugate bases of any of the inorganic acids listed above, wherein the conjugate bases comprise a cationic component selected from among Na⁺, K⁺, Mg²⁺, Ca²⁺, and NH₄R^m_{4-g}⁺, in which R^m is a C₁₋₃ alkyl and g is a number selected from among 0, 1, 2, 3, or 4. It should be understood that all references to pharmaceutically acceptable salts include solvent addition forms (solvates) or crystal forms (polymorphs) as defined herein, of the same acid addition salt.

Solid form preparations include powders, tablets, pills, capsules, suppositories, and dispersible granules. A solid carrier may be one or more substances which may also act as diluents, flavoring agents, solubilizers, lubricants, suspending agents, binders, preservatives, tablet disintegrating agents, or an encapsulating material. In powders, the carrier generally is a finely divided solid which is a mixture with the finely divided active component. In tablets, the active component generally is mixed with the carrier having the necessary binding capacity in suitable proportions and compacted in the shape and size desired. Suitable carriers include but are not limited to magnesium carbonate, magnesium stearate, talc, sugar, lactose, pectin, dextrin, starch, gelatin, tragacanth, methylcellulose, sodium carboxymethylcellulose, a low melting wax, cocoa butter, and the like. Solid form preparations may contain, in addition to the active component, colorants, flavors, stabilizers, buffers, artificial and natural sweeteners, dispersants, thickeners, solubilizing agents, and the like.

Liquid formulations also are suitable for oral administration include liquid formulation including emulsions, syrups, elixirs and aqueous suspensions. These include solid form preparations which are intended to be converted to liquid form preparations shortly before use. Emulsions may be prepared in solutions, for example, in aqueous propylene glycol solutions or may contain emulsifying agents such as lecithin, sorbitan monooleate, or acacia. Aqueous suspensions can be prepared by dispersing the finely divided active component in water with viscous material, such as natural or synthetic gums, resins, methylcellulose, sodium carboxymethylcellulose, and other well known suspending agents.

The compounds of the present invention may be formulated for administration as suppositories. A low melting wax, such as a mixture of fatty acid glycerides or cocoa butter is first melted and the active component is dispersed homogeneously, for example, by stirring. The molten homogeneous mixture is then poured into convenient sized molds, allowed to cool, and to solidify.

The compounds of the present invention may be formulated for vaginal administration. Pessaries, tampons, creams,

gels, pastes, foams or sprays containing in addition to the active ingredient such carriers as are known in the art to be appropriate.

Suitable formulations along with pharmaceutical carriers, diluents and excipients are described in Remington: The Science and Practice of Pharmacy 1995, edited by E.

W. Martin, Mack Publishing Company, 19th edition, Easton, Pa., which is hereby incorporated by reference. The compounds of the present invention can also be encapsulated in liposomes, such as those disclosed in U.S. Pat. Nos. 6,180, 134, 5,192,549, 5,376,380, 6,060,080, 6,132,763, each of which is incorporated by reference. A skilled formulation scientist may modify the formulations within the teachings of the specification to provide numerous formulations for a particular route of administration without rendering the compositions of the present invention unstable or compromising their therapeutic activity.

The modification of the present compounds to render them more soluble in water or other vehicle, for example, may be easily accomplished by minor modifications (e.g., salt formulation), which are well within the ordinary skill in the art. It is also well within the ordinary skill of the art to modify the route of administration and dosage regimen of a particular compound in order to manage the pharmacokinetics of the present compounds for maximum beneficial effect in patients.

A seventh embodiment of the present invention is directed to a use of the compound represented by formula I in the manufacture of a medicament for the treatment of any condition the result of an infection by any one of the following viral agents: hepatitis C virus, West Nile virus, yellow fever virus, dengue virus, rhinovirus, polio virus, hepatitis A virus, bovine viral diarrhea virus and Japanese encephalitis virus.

The term "medicament" means a substance used in a method of treatment and/or prophylaxis of a subject in need thereof, wherein the substance includes, but is not limited to, a composition, a formulation, a dosage form, and the like, comprising the compound of formula I. It is contemplated that the compound of the use of the compound represented by formula I in the manufacture of a medicament for the treatment of any of the antiviral conditions disclosed herein of the seventh embodiment can be any of the compounds contemplated in any of the aspects of the first, second, third, fourth, fifth embodiments or those specifically recited in the tables above or exemplified herein, either alone or in combination with another compound of the present invention. A medicament includes, but is not limited to, any one of the compositions contemplated by the sixth embodiment of the present invention.

A eighth embodiment of the present invention is directed to a method of treatment and/or prophylaxis in a subject in need thereof said method comprises administering a therapeutically effective amount of the compound represented by formula I to the subject.

A first aspect of the eighth embodiment is directed to a method of treatment and/or prophylaxis in a subject in need thereof said method comprises administering a therapeutically effective of at least two or more different compounds falling within the scope of the compound represented by formula I to the subject.

A second aspect of the eighth embodiment is directed to a method of treatment and/or prophylaxis in a subject in need thereof said method comprises alternatively or concurrently administering a therapeutically effective of at least two compounds falling within the scope of the compound represented by formula I to the subject.

It is intended that a subject in need thereof is one that has any condition the result of an infection by any of the viral agents disclosed herein, which includes, but is not limited to, hepatitis C virus, West Nile virus, yellow fever virus, dengue virus, rhinovirus, polio virus, hepatitis A virus, bovine viral diarrhea virus or Japanese encephalitis virus, flaviviridae

viruses or pestiviruses or hepaciviruses or a viral agent causing symptoms equivalent or comparable to any of the above-listed viruses.

The term "subject" means a mammal, which includes, but is not limited to, cattle, pigs, sheep, chicken, turkey, buffalo, llama, ostrich, dogs, cats, and humans, preferably the subject is a human. It is contemplated that in the method of treating a subject thereof of the sixth embodiment can be any of the compounds contemplated in any of the aspects of the first, second, and third embodiments or those specifically recited in the tables above, either alone or in combination with another compound of the present invention.

The term "therapeutically effective amount" as used herein means an amount required to reduce symptoms of the disease in an individual. The dose will be adjusted to the individual requirements in each particular case. That dosage can vary within wide limits depending upon numerous factors such as the severity of the disease to be treated, the age and general health condition of the patient, other medicaments with which the patient is being treated, the route and form of administration and the preferences and experience of the medical practitioner involved. For oral administration, a daily dosage of between about 0.1 and about 10 g, including all values in between, such as 0.25, 0.5, 0.75, 1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7, 7.5, 8, 8.5, 9, and 9.5, per day should be appropriate in monotherapy and/or in combination therapy. A preferred daily dosage is between about 0.5 and about 7.5 g per day, more preferred 1.5 and about 6.0 g per day. Generally, treatment is initiated with a large initial "loading dose" to rapidly reduce or eliminate the virus following by a decreasing the dose to a level sufficient to prevent resurgence of the infection. One of ordinary skill in treating diseases described herein will be able, without undue experimentation and in reliance on personal knowledge, experience and the disclosures of this application, to ascertain a therapeutically effective amount of the compounds of the present invention for a given disease and patient.

Therapeutic efficacy can be ascertained from tests of liver function including, but not limited to protein levels such as serum proteins (e.g., albumin, clotting factors, alkaline phosphatase, aminotransferases (e.g., alanine transaminase, aspartate transaminase), 5'-nucleosidase, γ -glutaminyl-transpeptidase, etc.), synthesis of bilirubin, synthesis of cholesterol, and synthesis of bile acids; a liver metabolic function, including, but not limited to, carbohydrate metabolism, amino acid and ammonia metabolism. Alternatively the therapeutic effectiveness may be monitored by measuring HCV-RNA. The results of these tests will allow the dose to be optimized.

A third aspect of the eighth embodiment, is directed to a method of treatment and/or prophylaxis in a subject in need thereof said method comprises administering to the subject a therapeutically effective of a compound represented by formula I and a therapeutically effective amount of another antiviral agent; wherein the administration is concurrent or alternative. It is understood that the time between alternative administration can range between 1-24 hours, which includes any sub-range in between including, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, and 23 hours. Examples of "another antiviral agents" include, but are not limited to: HCV NS3 protease inhibitors (see WO 2008010921, WO 2008010921, EP 1881001, WO 2007015824, WO 2007014925, WO 2007014926, WO 2007014921, WO 2007014920, WO 2007014922, US 2005267018, WO 2005095403, WO 2005037214, WO 2004094452, US 2003187018, WO 200364456, WO 2005028502, and WO 2003006490); HCV NS5B Inhibitors (see US 2007275947, US20072759300, WO2007095269, WO 2007092000, WO 2007076034, WO 200702602, US 2005-98125, WO 2006093801, US 2006166964, WO 2006065590, WO 2006065335, US 2006040927, US 2006040890, WO 2006020082, WO 2006012078, WO

595

2005123087, US 2005154056, US 2004229840, WO 2004065367, WO 2004003138, WO 2004002977, WO 2004002944, WO 2004002940, WO 2004000858, WO 2003105770, WO 2003010141, WO 2002057425, WO 2002057287, WO 2005021568, WO 2004041201, US 20060293306, US 20060194749, US 20060241064, U.S. Pat. No. 6,784,166, WO 2007088148, WO 2007039142, WO 2005103045, WO 2007039145, WO 2004096210, and WO 2003037895); HCV NS4 Inhibitors (see WO 2007070556 and WO 2005067900); HCV NS5a Inhibitors (see US 2006276511, WO 2006120252, WO 2006120251, WO 2006100310, WO 2006035061); Toll-like receptor agonists (see WO 2007093901); and other inhibitors (see WO 2004035571, WO 2004014852, WO 2004014313, WO 2004009020, WO 2003101993, WO 2000006529).

A fourth aspect of the eighth embodiment, is directed to a method of treatment in a subject in need thereof said method comprises alternatively or concurrently administering a therapeutically effective of a compound represented by formula I and another antiviral agent to the subject. It is understood that the time between alternative administration can range between 1-24 hours, which includes any sub-range in between including, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, and 23 hours.

A fifth aspect of the eighth embodiment, is directed to a method of treatment and/or prophylaxis in a subject in need thereof said method comprises administering to the subject a therapeutically effective of at least one compound represented by formula I and a therapeutically effective amount of another antiviral agent; wherein the administration is concurrent or alternative. It is understood that the time between alternative administration can range between 1-24 hours, which includes any sub-range in between including, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, and 23 hours.

A sixth aspect of the eighth embodiment, is directed to a method of treatment in a subject in need thereof said method comprises alternatively or concurrently administering a therapeutically effective of at least one compound represented by formula I and another antiviral agent to the subject. It is understood that the time between alternative administration can range between 1-24 hours, which includes any sub-range in between including, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, and 23 hours.

It is contemplated that the another antiviral agent includes, but is not limited to interferon- α , interferon- β , pegylated interferon- α , ribavirin, levovirin, viramidine, another nucleoside HCV polymerase inhibitor, a HCV non-nucleoside polymerase inhibitor, a HCV protease inhibitor, a HCV helicase inhibitor or a HCV fusion inhibitor. When the active compound or its derivative or salt are administered in combination with another antiviral agent the activity may be increased over the parent compound. When the treatment is combination therapy, such administration may be concurrent or sequential with respect to that of the nucleoside derivatives. "Concurrent administration" as used herein thus includes administration of the agents at the same time or at different times. Administration of two or more agents at the same time can be achieved by a single formulation containing two or more active ingredients or by substantially simultaneous administration of two or more dosage forms with a single active agent.

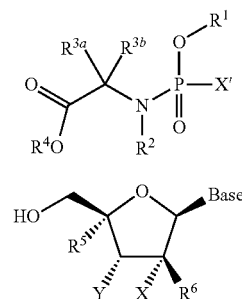
It will be understood that references herein to treatment extend to prophylaxis as well as to the treatment of existing conditions. Furthermore, the term "treatment" of a HCV infection, as used herein, also includes treatment or prophylaxis of a disease or a condition associated with or mediated by HCV infection, or the clinical symptoms thereof.

Process For Preparation

An ninth embodiment of the present invention is directed to a process for preparing the compound of formula I, which

596

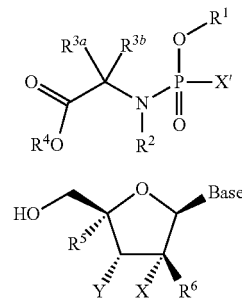
comprises reacting a suitably substituted phosphochloridate compound 4 with a nucleoside analog 5



wherein the substituents R^1 , R^2 , R^{3a} , R^{3b} , R^4 , R^5 , X , Y , R^6 , and base have their meanings as disclosed in the Detailed Description of the Invention and X' is a leaving group, such as Cl, Br, I, tosylate, mesylate, trifluoroacetate, trifluorosulfonate, pentafluorophenoxide, p-NO₂-phenoxide, or other commonly used leaving groups as disclosed in *Advanced Organic Chemistry* by March, Fourth Edition. Leaving groups and methods that can be used to effect the formation of a phosphoramidate nucleoside conjugate are found in US 20060142238 and WO 2007095269. Preferably, the leaving group is Cl.

This reaction is performed in an anhydrous aprotic solvent such tetrahydrofuran, dioxane, or both tetrahydrofuran and dioxane, or any functional equivalent thereof, with tetrahydrofuran being the preferred solvent. The reaction is typically initiated at a temperature range from -78° C. to 40° C. with the preferred reaction temperature being between 0° C. and room temperature. The nucleoside is first stirred with a base (5 to 12 equivalents) such as N-methylimidazole, collidine, pyridine, 2,6-lutidine, 2,6-*t*Bu-pyridine, etc. a tertiary amine base, such as triethylamine, diisopropylethylamine, etc., or an alkyl Grignard reagent, such as *t*BuMgCl, *t*BuMgBr, MeMgCl, MeMgBr, etc. The phosphorochloridate (3-10 equivalents) is dissolved in the reaction solvent and added to the mixture of the nucleoside and base. The reaction is then allowed to stir over a period of time at a temperature between room temperature and 40° C. for a period of 30 min to 24 hr. with the preferred reaction temperature being room temperature and time being 24 hr. The solvent is removed from the reaction mixture and the product is purified by chromatography on silica gel.

A tenth embodiment of the present invention is directed to a product obtained by a process which comprises reacting a suitably substituted phosphochloridate compound 4 with a nucleoside analog 5



wherein the substituents R^1 , R^2 , R^{3a} , R^{3b} , R^4 , R^5 , X , Y , R^6 , X' , and base have their meanings as disclosed in the Detailed Description of the Invention.

597

This reaction can be performed in an anhydrous aprotic solvent or other suitable solvent, such as tetrahydrofuran, dioxane, or a mixture of tetrahydrofuran and dioxane, with tetrahydrofuran being the preferred solvent. The reaction is typically initiated at a temperature range from -78°C . to 40°C . with the preferred reaction temperature being between 0°C . and room temperature. The nucleoside is first stirred with a base (5 to 12 equivalents) such as N-methylimidazole, a tertiary amine base or tButyl Magnesium Chloride. A phosphorochloridate β -10 equivalents (or suitable "phosphoro- (leaving group)-date") is dissolved in the reaction solvent and added to the mixture of the nucleoside and base. The reaction is then allowed to stir over a period of time at a temperature between room temperature and 40°C . for a period of 30 min to 24 hr. with the preferred reaction temperature being room temperature and time being 24 hr. The solvent is removed from the reaction mixture and the product is purified by chromatography on silica gel.

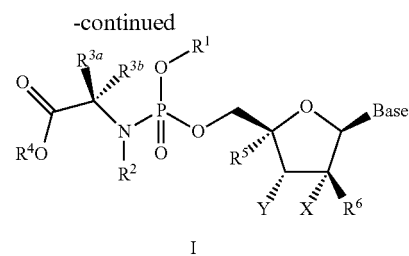
Compounds and Preparation

Phosphoramidate compounds of the present invention can be prepared by condensation of a nucleoside analog 5 with a suitably substituted phosphochloridate compound 4 (Scheme 1). The nucleoside analog is made by conventional procedures disclosed in any one of U.S. Published Application Nos. 2005/0009737, 2006/0199783, 2006/0122146, and 2007/0197463, each of which is incorporated by reference in its entirety.

Disclosed $^1\text{H-NMR}$ values were recorded on a Varian AS-400 instrument. Mass spectral data were obtained using either a Micromass-Quattro micro API or a Waters Acquity.

Thus, by way of example only, a suitably substituted phenol can be reacted with phosphorus oxychloride (1) to afford an aryloxy phosphorodichloridate 2 (see Example 1) which is subsequently treated with an acid addition salt of an α -amino acid ester in the presence of TEA to afford an aryloxy phosphorochloridate 4. This aryloxy-amino acid phosphoramidate is reacted with the nucleoside analog to provide the product I (for procedure see, e.g., C. McGuigan et al. *Antiviral Res.* 1992 17:311-321; D. Curley et al. *Antiviral Res.* 1990 14:345-356; McGuigan et al. *Antiviral Chem. Chemother* 1990 1(2):107-113).

598



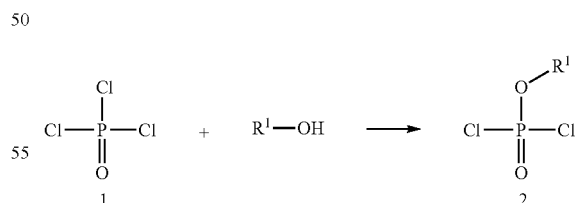
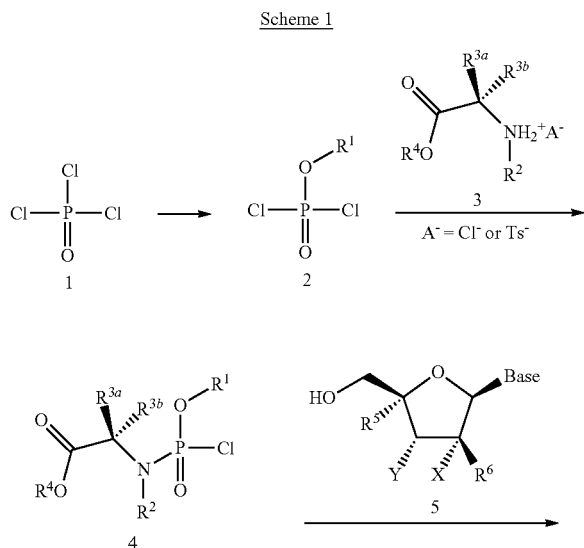
The preparation of nucleoside phosphoramidates requires reacting an appropriately substituted phosphochloridate with a nucleoside containing a free 5'-hydroxyl moiety. In cases where only one hydroxyl group is present, preparation of the phosphoramidate usually proceeds smoothly when the phosphochloridate is reacted with the desired nucleoside. In cases where the nucleoside contains more than one free hydroxyl group, preparation of the appropriately protected nucleoside might be required. Silyl, acetonide or other alcohol protecting groups known in the art might be warranted for protection of the sugar moiety. For protection of the nucleoside base, protecting a free amino group may require amidine protection strategy.

Condensation of the phosphochloridate can be carried out on the unprotected nucleoside. Since the 5'-OH group of a nucleoside is much less hindered than the 3'-OH group, selective phosphoramidation is possible under carefully controlled conditions. After condensation to form a protected phosphoramidate nucleoside, deprotection to obtain the free phosphoramidate nucleoside can be carried out using standard protocols for nucleic acid chemistry. In many cases, the desired product is readily separated from the starting material using column chromatography on silica gel. The synthetic scheme is summarized in Scheme 1.

A further understanding of the disclosed embodiments will be appreciated by consideration of the following examples, which are only meant to be illustrative, and not limit the disclosed invention.

Example 1

General Procedure for Preparation of phosphorodichloridates

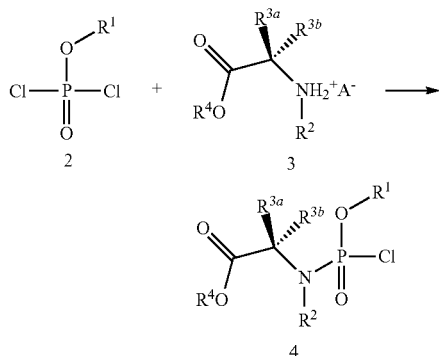


A solution of the appropriate phenol $\text{R}^1\text{-OH}$ (1 eq) and triethylamine (1 eq.) in anhydrous ether was added dropwise to a stirred solution of phosphoryl trichloride 1 (1 eq) at 0°C . over a period of 3 hours under nitrogen. Then the temperature was warmed to room temperature, and the reaction was stirred overnight. The triethylamine salt was quickly removed with suction filtration and the filtrate concentrated in vacuo to dryness to afford 2 as an oil which was used without further purification.

599

Example 2

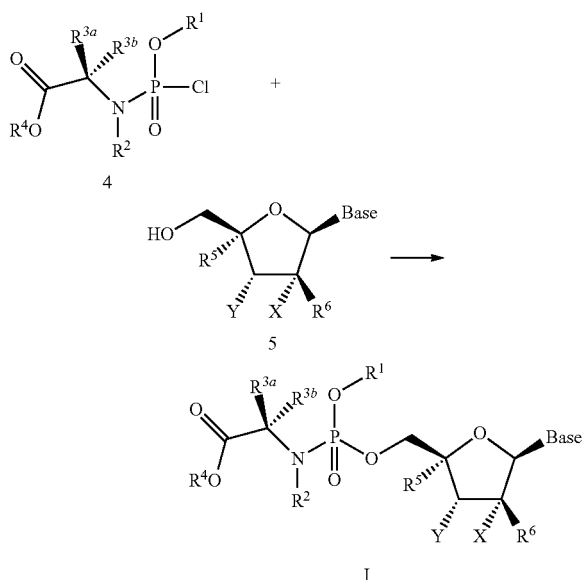
General Procedure for Preparation of phosphorochloridates

A⁻ = Cl⁻ or Ts⁻

A solution of triethylamine (2 eq) in anhydrous dichloromethane was added dropwise to a solution of aryloxyphosphodichloridate 2 (1 eq) and the appropriate amino ester 3 (1 eq) in anhydrous dichloromethane with vigorous stirring at -78° C. over a period of 30 to 120 minutes. Then the reaction temperature was allowed to warm to room temperature and stirred over night. Solvent was removed. The residue was washed with ethyl ether and filtered, the filtrate was dried over reduced pressure to give 4.

Example 3

General Procedures for nucleoside phosphoramidate derivatives

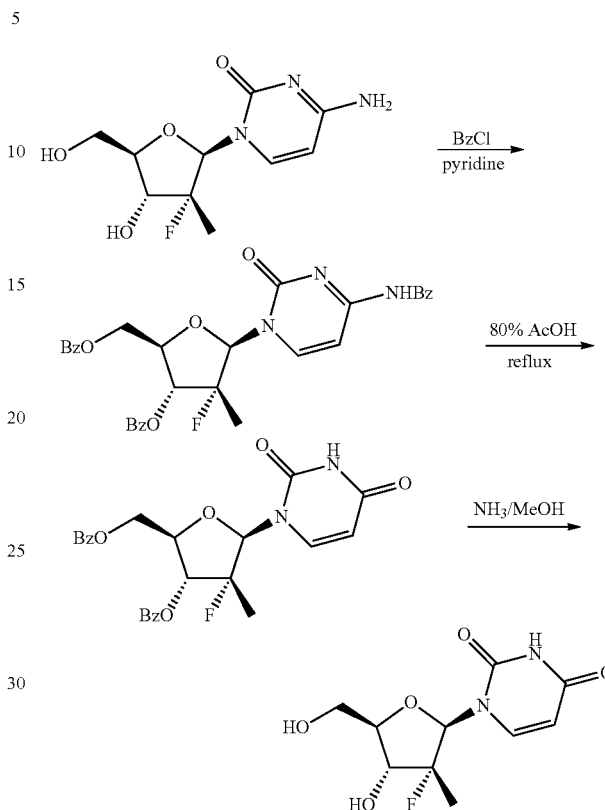


A solution of the appropriate phosphorochloridate 4 (6.5 equivalents) in anhydrous tetrahydrofuran (THF) was added to a mixture of nucleoside 5 (1 equivalent) and N-methylimidazole (8 equivalents) in anhydrous THF with vigorous stirring at room temperature and the reaction mixture was stirred overnight. The solvent was removed in vacuo and the crude was purified by column chromatography and/or preparative thin layer chromatography to give I.

600

Example 4

Preparation of 2'-deoxy-2'-fluoro-2'-C-methyluridine



2'-Deoxy-2'-fluoro-2'-C-methylcytidine (1.0 g, 1 eq) (Clark, J., et al., J. Med. Chem., 2005, 48, 5504-5508) was dissolved in 10 ml of anhydrous pyridine and concentrated to dryness in vacuo. The resulting syrup was dissolved in 20 ml of anhydrous pyridine under nitrogen and cooled to 0° C. with stirring. The brown solution was treated with benzoyl chloride (1.63 g, 3 eq) dropwise over 10 min. The ice bath was removed and stirring continued for 1.5 h whereby thin-layer chromatography (TLC) showed no remaining starting material. The mixture was quenched by addition of water (0.5 ml) and concentrated to dryness. The residue was dissolved in 50 mL of dichloromethane (DCM) and washed with saturated NaHCO₃ aqueous solution and H₂O. The organic phase was dried over NaSO₄ and filtered, concentrated to dryness to give N⁴,3',5'-tribenzoyl-2'-Deoxy-2'-fluoro-2'-C-methylcytidine (2.0 g, Yield: 91%).

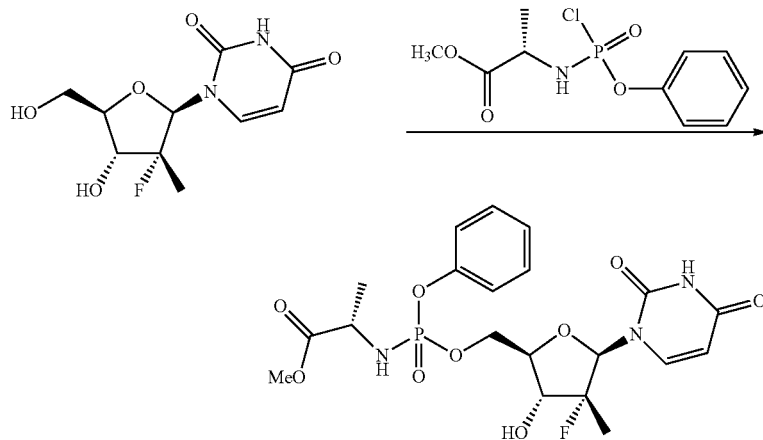
N⁴,3',5'-tribenzoyl-2'-Deoxy-2'-fluoro-2'-C-methylcytidine (2.0 g, 1 eq) was refluxed in 80% aqueous AcOH overnight. After cooling and standing at room temperature (15° C.), most of the product precipitated and then was filtered through a sintered funnel. White precipitate was washed with water and co-evaporated with toluene to give a white solid. The filtrate was concentrated and co-evaporated with toluene to give additional product which was washed with water to give a white solid. Combining the two batches of white solid gave 1.50 g of 3',5'-dibenzoyl-2'-Deoxy-2'-fluoro-2'-C-methyluridine (Yield: 91%).

To a solution of 3',5'-dibenzoyl-2'-Deoxy-2'-fluoro-2'-C-methyluridine (1.5 g, 1 eq) in MeOH (10 mL) was added a solution of saturated ammonia in MeOH (20 mL). The reaction mixture was stirred at 0° C. for 30 min, and then warmed to room temperature slowly. After the reaction mixture was stirred for another 18 hours, the reaction mixture was evaporated under reduced pressure to give the residue, which was purified by column chromatography to afford pure compound 2'-deoxy-2'-fluoro-2'-C-methyluridine (500 mg, Yield: 60%).

601

Example 5

Preparation of 2'-Deoxy-2'-fluoro-2'-C-methyluridine
5'-(phenyl methoxy-alanyl phosphate)

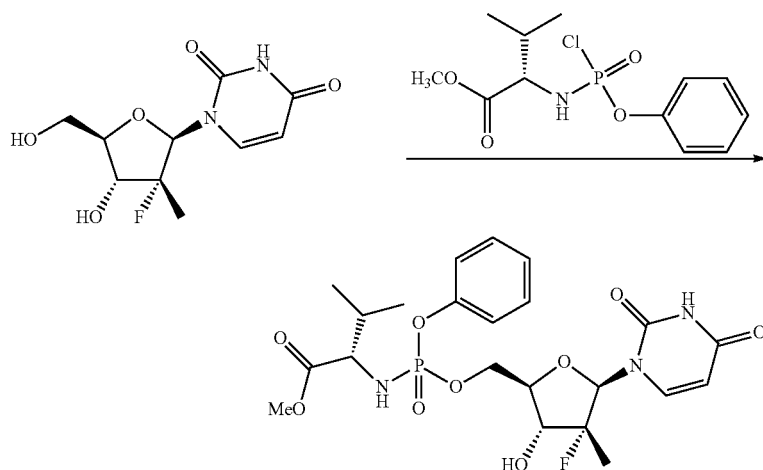


25

Phenyl methoxyalanyl phosphorochloridate (1 g, 6.5 eq) dissolved in 3 mL of THF was added to a mixture of 2'-Deoxy-2'-fluoro-2'-C-methyluridine (0.15 g, 1 eq) and N-methylimidazole (0.3 g, 8 eq) in 3 mL THF with vigorous stirring at room temperature, then the reaction was stirred overnight. Solvent was removed by reduced pressure. The resulting crude product was dissolved in methanol purified by prep-HPLC on a YMC 25×30×2 mm column using a water/ acetonitrile gradient elution mobile phase. The acetonitrile and water were removed under reduced pressure to give the desired product (50.1 mg, 15.6%). ¹H NMR (DMSO-d₆) δ 1.20-1.27 (m, 6H), 3.58 (d, J=16.0 Hz, 3H), 3.75-3.92 (m, 2H), 4.015-4.379 (m, 2H), 5.54 (t, J=10.2 Hz, 1H), 5.83-5.91 (m, 1H), 6.00-6.16 (m, 1H), 7.18 (d, J=8.0 Hz, 2H), 7.22 (s, 1H), 7.35 (t, J=4.4 Hz, 2H), 7.55 (s, 1H), 11.52 (s, 1H); MS, m/e 502 (M+1)⁺.

Example 6

Preparation of 2'-Deoxy-2'-fluoro-2'-C-methyluridine
5'-(phenyl methoxy-valyl phosphate)



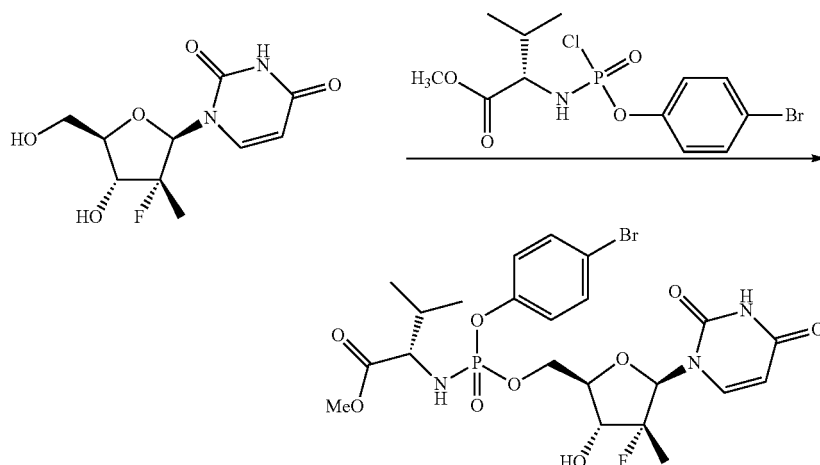
30

35

40

Phenyl methoxy-valyl phosphorochloridate (0.6 g, 3.6 eq) dissolved in 3 mL of THF was added to a mixture of 2'-Deoxy-2'-fluoro-2'-C-methyluridine (0.15 g, 1 eq) and N-methylimidazole (0.44 g, 9 eq) in 3 mL THF with vigorous stirring at room temperature, then the reaction was stirred overnight. Solvent was removed by reduced pressure. The resulting crude product was dissolved in methanol purified by prep-HPLC on a YMC 25×30×2 mm column using a water/ acetonitrile gradient elution mobile phase. The acetonitrile and water were removed under reduced pressure to give the desired product (60 mg, 20%). ¹H NMR (DMSO-d₆) δ 0.74-0.847 (m, 6H), 1.20-1.28 (m, 3H), 1.89-1.92 (m, 1H), 3.50-3.54 (m, 1H), 3.58 (d, J=10.4 Hz, 3H), 3.72-3.95 (m, 1H), 4.03-4.05 (m, 1H), 4.23-4.43 (m, 2H), 5.56 (t, J=16.0 Hz, 1H), 5.85-5.92 (m, 1H), 6.01-6.07 (m, 1H), 7.16-7.21 (m, 3H), 7.37 (t, J=8 Hz, 2H), 7.55-7.60 (m, 1H), 11.52 (s, 1H); MS, m/e 530 (M+1)⁺.

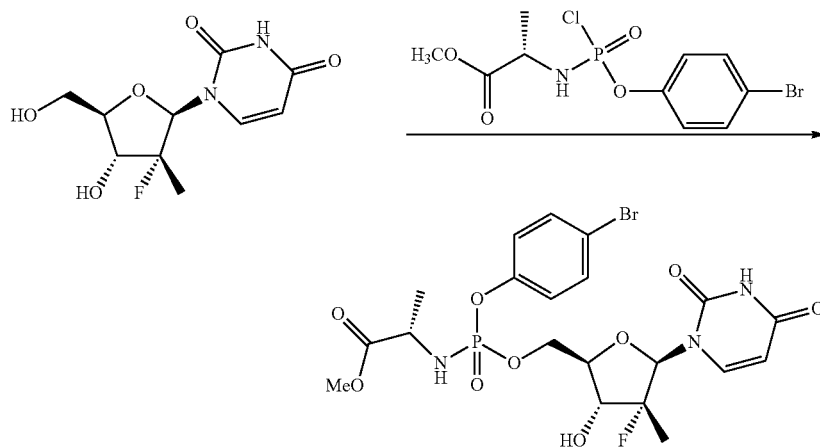
Preparation of 2'-Deoxy-2'-fluoro-2'-C-methyluridine
5'-(4-bromophenyl methoxy-valyl phosphate)



4-Bromophenyl methoxy-valyl phosphorochloridate (1 g, 3.4 eq) dissolved in 3 mL of THF was added to a mixture of 2'-deoxy-2'-fluoro-2'-C-methyluridine (0.2 g, 1 eq) and N-methylimidazole (0.35 g, 6 eq) in 3 mL THF with vigorous stirring at room temperature, then the reaction was stirred overnight. Solvent was removed by reduced pressure. The resulting crude product was dissolved in methanol purified by prep-HPLC on a YMC 25×30×2 mm column using a water/ acetonitrile gradient elution mobile phase. The acetonitrile and water were removed reduced pressure to give the desired product (120 mg, 26%). ¹H NMR (DMSO-d₆) δ 0.72-0.82 (m, 6H), 1.19-1.26 (m, 3H), 1.86-1.92 (m, 1H), 3.48-3.50 (m, 1H), 3.56 (d, J=12.0 Hz, 3H), 3.72-3.89 (m, 1H), 3.96-4.03 (m, 1H), 4.22-4.37 (m, 2H), 5.54-5.60 (m, 1H), 5.85-5.91 (m, 1H), 5.98-6.13 (m, 1H), 7.15 (d, J=8.0 Hz, 2H), 7.49-7.56 (m, 3H), 11.53 (s, 1H); MS, m/e 608 (M+)⁺.

Example 8

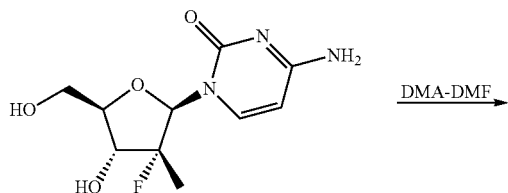
Preparation of 2'-Deoxy-2'-fluoro-2'-C-methyluridine
5'-(4-bromophenyl methoxy-alanyl phosphate)



4-Bromophenyl methoxy-alanyl phosphorochloridate (0.6 g, 5 eq) dissolved in 3 mL of THF was added to a mixture of 2'-deoxy-2'-fluoro-2'-C-methyluridine (0.15 g, 1 eq) and N-methylimidazole (0.3 g, 7.8 eq) in 3 mL THF with vigorous stirring at room temperature, then the reaction was stirred overnight. Solvent was removed by reduced pressure. The resulting crude product was dissolved in methanol purified by prep-HPLC on a YMC 25×30×2 mm column using a water/ acetonitrile gradient elution mobile phase. The acetonitrile and water were removed under reduced pressure to give the desired product (40 mg, 12%); ¹H NMR (DMSO-d₆) δ 1.20-1.26 (m, 6H), 3.57 (d, J=2.8 Hz, 3H), 3.84 (s, 1H), 3.97-4.03 (m, 1H), 4.21-4.25 (m, 1H), 4.33-4.37 (m, 2H), 5.54-5.60 (m, 1H), 5.83-5.89 (m, 1H), 5.98-6.19 (m, 1H), 7.16 (t, J=10.2 Hz, 2H), 7.52-7.57 (m, 3H), 11.52 (s, 1H); MS, m/e 580(M+)⁺.

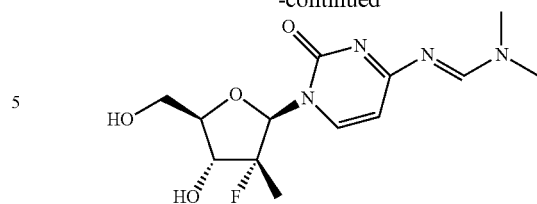
605

Example 9

Preparation of N⁴—(N,N-dimethylformamidinyl)-2'-deoxy-2'-fluoro-2'-C-methylcytidine

606

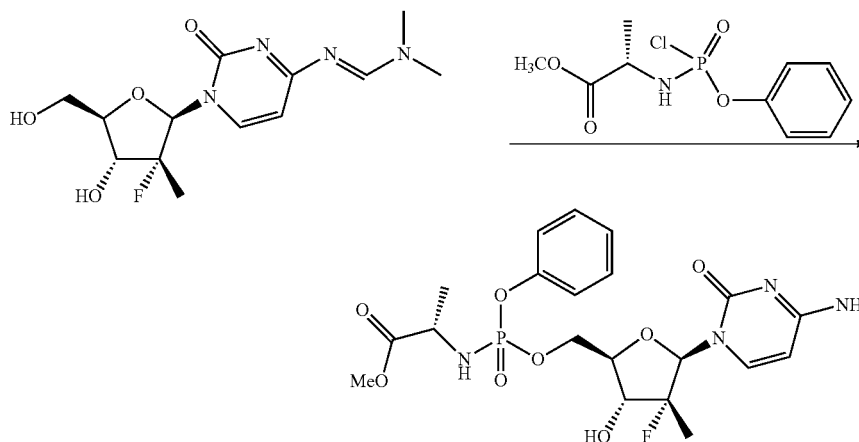
-continued



2'-Deoxy-2'-fluoro-2'-C-methylcytidine (500 mg, 1.9 mmol) was stirred with dimethylformamide dimethyl acetal in DMF (10 mL). The resulting mixture was stirred at room temperature overnight. After solvent removal the crude product was used for next step without further purification.

Example 10

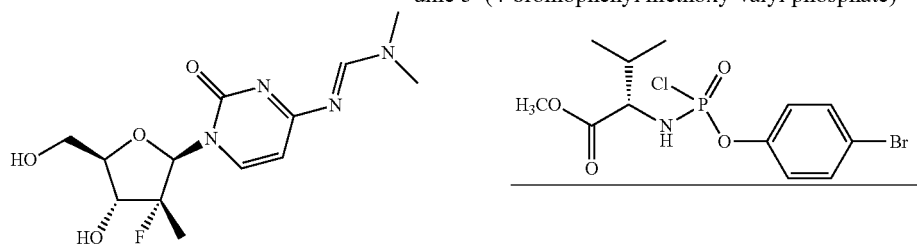
Preparation of 2'-Deoxy-2'-fluoro-2'-C-methylcytidine 5'-(phenyl methoxy-alanyl phosphate)



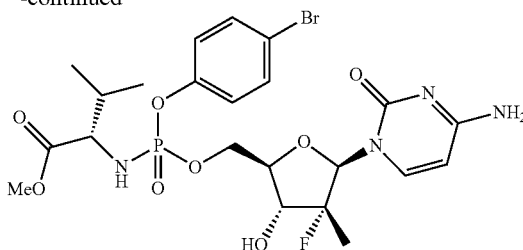
Phenyl methoxyalanyl phosphorochloridate (0.6 g, 6 eq) dissolved in 3 mL of THF was added to a mixture of N⁴—(N,N-dimethylformamidinyl)-2'-deoxy-2'-fluoro-2'-C-methylcytidine (0.15 g, 1 eq) and N-methylimidazole (0.3 g, 7.8 eq) in 3 mL THF with vigorous stirring at room temperature, then the reaction was stirred overnight. Solvent was removed by reduced pressure. The resulting crude product was dissolved in methanol purified by prep-HPLC on a YMC 25×30×2 mm column using a water/acetonitrile gradient elution mobile phase. The acetonitrile and water were removed under reduced pressure to give the desired product (62 mg, 20.6%).
¹H NMR (DMSO-d₆) δ 1.16 (d, J=23.2 Hz, 3H), 1.22 (d, J=7.2 Hz, 3H), 3.56 (s, 3H), 3.69-3.75 (d, J=25.6 Hz, 1H), 3.82-3.86 (m, 1H), 3.96-3.98 (m, 1H), 4.21-4.34 (m, 2H), 5.68 (d, J=7.2 Hz, 1H), 5.75-5.77 (m, 1H), 6.07-6.16 (m, 1H), 7.15-7.19 (m, 3H), 7.2 (d, J=9.2 Hz, 2H), 7.39 (t, J=7.8 Hz, 2H), 7.48 (d, J=9.2 Hz, 1H); MS, m/e 501(M+1)⁺.

Example 11

Preparation of 2'-Deoxy-2'-fluoro-2'-C-methylcytidine 5'-(4-bromophenyl methoxy-valyl phosphate)



-continued



15

4-Bromophenyl methoxy-valyl phosphorochloridate (1.0 g, 3.4 eq.) dissolved in 3 mL of THF was added to a mixture of N^4 -(N,N-dimethylformamidinyl)-2'-deoxy-2'-fluoro-2'-C-methylcytidine (0.2 g, 1 eq.) and N-methylimidazole (0.35 g, 6 eq.) in 3 mL THF with vigorous stirring at room temperature, then the reaction was stirred overnight. Solvent was removed by reduced pressure. The resulting crude product was dissolved in methanol purified by prep-HPLC on a YMC 25×30×2 mm column using a water/acetonitrile gradient elution mobile phase. The acetonitrile and water were removed under reduced pressure to give the desired product as a white solid (59 mg, 13%); $^1\text{H NMR}$ (DMSO- d_6) δ 0.74-0.83 (m, 6H), 1.12-1.20 (m, 3H), 1.89-1.92 (m, 1H), 3.49-3.51 (m, 1H), 3.55 (s, 3H), 3.59-3.68 (m, 1H), 3.72-3.83 (m, 1H), 4.21-4.39 (m, 2H), 5.70-5.72 (m, 1H), 5.76-5.83 (m, 1H), 6.04-6.16 (m, 1H), 7.15 (d, $J=13.0$ Hz, 2H), 7.26 (s, 1H), 7.33 (s, 1H), 7.46-7.55 (m, 1H), 7.56 (d, $J=4.4$ Hz, 2H); MS, m/e 607 ($M+1$) $^+$.

20

25

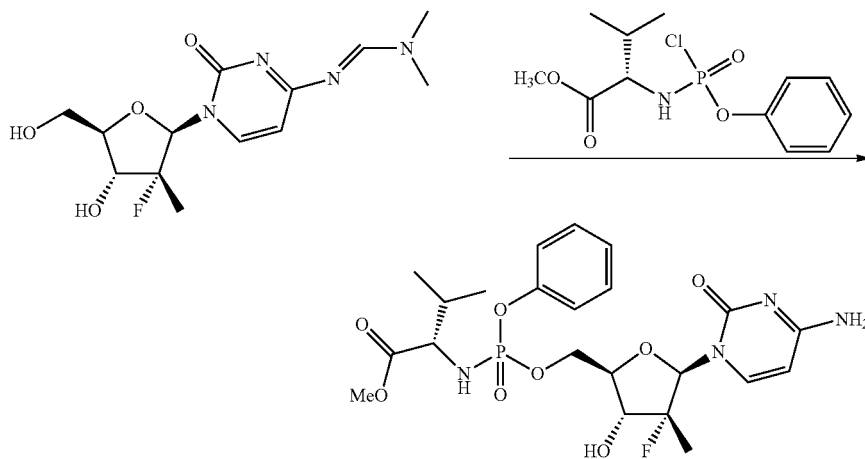
30

phase. The acetonitrile and water were removed under reduced pressure to give the desired product as a white solid (86 mg, 42.9%). $^1\text{H NMR}$ (DMSO- d_6) δ 0.72-0.80 (m, 6H), 1.09-1.18 (m, 3H), 1.87-1.92 (m, 1H), 3.47-3.51 (m, 1H), 3.58 (s, 3H), 3.71-3.75 (m, 1H), 3.97 (t, $J=11.2$ Hz, 1H), 4.22-4.37 (m, 2H), 5.70 (d, $J=8.0$ Hz, 1H), 5.76-5.84 (m, 1H), 6.01-6.15 (m, 1H), 7.13-7.18 (m, 3H), 7.27 (s, 2H), 7.34 (d, $J=4.0$ Hz, 2H), 7.46-7.50 (m, 1H); MS, m/e 529 ($M+1$) $^+$.

EXAMPLES

Example 12

Preparation of 2'-deoxy-2'-fluoro-2'-C-methylcytidine 5'-(phenyl methoxy-valyl phosphate)



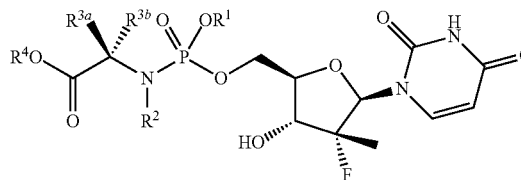
35

Example numbers 13-54 and 56-66 are prepared using similar procedures described for examples 5-8. The example number, compound identification, and NMR/MS details are shown below:

Phenyl methoxy-valyl phosphorochloridate (0.6 g, 6 eq) dissolved in 3 mL of THF was added to a mixture of N^4 -(N,N-dimethylformamidinyl)-2'-deoxy-2'-fluoro-2'-C-methylcytidine (0.15 g, 1 eq) and N-methylimidazole (0.3 g, 7.8 eq) in 3 mL THF with vigorous stirring at room temperature, then the reaction was stirred overnight. Solvent was removed by reduced pressure. The resulting crude product was dissolved in methanol purified by prep-HPLC on a YMC 25×30×2 mm column using a water/acetonitrile gradient elution mobile

60

65



Ex.	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	NMR/MS
13	Ph	H	H	Me	Et	¹ H NMR (DMSO-d ₆) δ 1.12-1.16 (m, 3H), 1.20-1.28 (m, 6H), 3.70-3.90 (m, 2H), 4.00-4.08 (m, 3H), 4.18-4.45 (m, 2H), 5.52-5.58 (m, 1H), 5.85-5.98 (m, 1H), 6.00-6.20 (m, 2H), 7.16-7.23 (m, 3H), 7.37-7.40 (m, 2H), 7.54-7.60 (m, 1H), 11.54 (s, 1H); MS, m/e 516.1 (M + 1)+ ¹ H NMR (DMSO-d ₆) δ 1.18-1.30 (m, 6H), 3.78-4.10 (m, 3H), 4.38-4.49 (m, 2H), 4.99-5.11 (m, 2H), 5.28-5.40 (m, 1H), 5.85-6.10 (m, 2H), 6.30-6.41 (m, 1H), 7.28-7.32 (m, 5H), 7.41-7.60 (m, 5H), 7.73-7.76 (m, 1H), 7.94-8.11 (m, 1H), 8.13-8.15 (m, 1H), 11.50 (s, 1H); MS, m/e 628.4 (M + 1)+
14	1-Naphth	H	H	Me	Bn	¹ H NMR (DMSO-d ₆) δ 1.22 (d, J = 22.4 Hz, 3H), 3.59 (s, 3H), 3.63-3.69 (m, 2H), 3.74-3.8 (m, 1H), 4.02 (d, J = 11.2 Hz, 1H), 4.23-4.28 (m, 1H), 4.40-4.43 (m, 1H), 5.57-5.60 (m, 1H), 5.89 (d, J = 6.8 Hz, 1H), 6.00-6.06 (m, 2H), 7.15-7.23 (m, 3H), 7.35-7.39 (m, 2H), 7.52 (d, J = 8 Hz, 1H), 11.52 (s, 1H); MS, m/e 487.97 (M + 1)+
15	Ph	H	H	H	Me	¹ H NMR (DMSO-d ₆) δ 1.22-1.28 (m, 6H), 3.57-3.60 (m, 3H), 3.84-3.92 (m, 2H), 4.00-4.04 (m, 1H), 4.31-4.44 (m, 2H), 5.54-5.61 (m, 1H), 5.85-6.10 (m, 2H), 6.32-6.43 (m, 1H), 7.44-7.54 (m, 3H), 7.72-7.75 (m, 1H), 11.54 (s, 1H); MS, m/e 570.2 (M + 1)+
16	2,4-Cl—Ph	H	H	Me	Me	¹ H NMR (DMSO-d ₆) δ 1.15-1.27 (m, 6H), 3.51-3.55 (d, 3H), 3.85-3.96 (m, 2H), 4.00-4.10 (m, 1H), 4.30-4.46 (m, 2H), 5.31-5.39 (m, 1H), 5.89-6.05 (m, 2H), 6.22-6.34 (m, 1H), 7.44-7.60 (m, 5H), 7.73-7.77 (m, 1H), 7.93-7.96 (m, 1H), 8.12-8.14 (m, 1H), 11.50 (s, 1H); MS, m/e 552.1 (M + 1)+
17	1-Naphth	H	H	Me	Me	¹ H NMR (DMSO-d ₆) δ 1.19 (d, J = 22.8 Hz, 3H), 1.69-1.84 (m, 3H), 1.99-2.04 (m, 1H), 3.16-3.21 (m, 2H), 3.58 (s, 3H), 3.68-3.8 (m, 1H), 4.00 (m, 1H), 4.01-4.13 (m, 1H), 4.22-4.25 (m, 1H), 4.5 (d, J = 11.2 Hz, 1H), 5.54 (d, J = 8.0 Hz, 1H), 5.86 (s, 1H), 5.6 (d, J = 19.6 Hz, 1H), 7.15-7.2 (m, 3H), 7.34 (t, J = 8.0 Hz, 2H), 7.51 (d, J = 8.0 Hz, 1H), 11.38 (s, 1H); MS, m/e 527.93 (M + 1)+
18	Ph	*	H	*	Me	¹ H NMR (DMSO-d ₆) δ 0.80-0.90 (m, 3H), 1.20-1.35 (m, 8H), 1.48-1.55 (m, 2H), 3.78-3.88 (m, 2H), 3.95-4.08 (m, 3H), 4.22-4.45 (m, 2H), 5.55-5.57 (t, 1H), 5.85-6.18 (m, 3H), 7.14-7.23 (m, 3H), 7.35-7.40 (m, 2H), 7.51-7.60 (d, 1H), 11.50 (s, 1H); MS, m/e 544.2 (M + 1)+
19	Ph	H	H	Me	n-Bu	¹ H NMR (DMSO-d ₆) δ 1.20-1.30 (m, 6H), 3.72-4.05 (m, 3H), 4.23-4.27 (m, 1H), 4.32-4.45 (m, 1H), 5.07-5.10 (t, 2H), 5.52-5.56 (t, 1H), 5.86-6.10 (m, 2H), 6.13-6.21 (m, 1H), 7.15-7.21 (m, 3H), 7.29-7.40 (m, 7H), 7.51-7.56 (d, 1H), 11.50 (s, 1H); MS, m/e 578.2 (M + 1)+
20	Ph	H	H	Me	Bn	¹ H NMR (DMSO-d ₆) δ 1.28-1.34 (m, 6H), 3.65 (d, J = 4 Hz, 3H), 3.85-3.96 (m, 2H), 4.06-4.12 (m, 1H), 4.30-4.34 (m, 1H), 4.40-4.47 (m, 1H), 5.62-5.67 (m, 1H), 5.94-6.01 (m, 1H), 6.09 (d, J = 18.8 Hz, 1H), 6.17-6.26 (m, 1H), 7.27-7.33 (m, 4H), 7.62 (d, J = 7.6 Hz, 1H), 11.61 (s, 1H); MS, m/e 519.94 (M + 1)+
21	4-F—Ph	H	H	Me	Me	¹ H NMR (DMSO-d ₆) δ 1.22-1.28 (m, 6H), 3.58 (d, 2H), 3.70-3.95 (m, 2H), 3.95-4.08 (m, 1H), 4.23-4.45 (m, 2H), 5.55-5.61 (t, 1H), 5.85-6.10 (m, 2H), 6.15-6.23 (m, 1H), 7.20-7.26 (m, 2H), 7.43-7.46 (m, 2H), 7.54-7.57 (d, 1H), 11.50 (s, 1H); MS, m/e 536.1 (M + 1)+
22	4-Cl—Ph	H	H	Me	Me	¹ H NMR (DMSO-d ₆) δ 1.13 (m, 6H), 3.49 (s, 3H), 3.61-3.85 (m, 2H), 3.90-3.93 (m, 1H), 4.16-4.22 (m, 1H), 4.27-4.31 (m, 1H), 5.47-5.52 (m, 1H), 5.82 (d, J = 11.6 Hz, 1H), 5.93 (d, J = 19.2 Hz, 1H), 6.15-6.25 (m, 1H), 7.13 (t, J = 9.6 Hz, 1H), 7.43 (d, J = 12 Hz, 2H), 7.57 (d, J = 6.0 Hz, 1H), 11.43 (s, 1H); MS, m/e 569.85 (M + 1)+
23	3,4-Cl—Ph	H	H	Me	Me	¹ H NMR (DMSO-d ₆) δ 0.83 (d, J = 6.8 Hz, 6H), 1.20-1.26 (m, 6H), 1.79-1.86 (m, 1H), 3.73-3.90 (m, 4H), 4.01 (t, J = 11.2 Hz, 1H), 4.21-4.28 (m, 1H), 4.33-4.42 (m, 1H), 5.54 (t, J = 7.6 Hz, 1H), 5.85-5.92 (m, 1H), 5.99-6.13 (m, 2H), 7.19 (t, J = 8 Hz, 3H), 7.36 (t, J = 7.6 Hz, 2H), 7.53 (d, J = 7.6 Hz, 1H), 11.52 (s, 1H); MS, m/e 544.00 (M + 1)+
24	Ph	H	H	Me	2-Bu	¹ H NMR (DMSO-d ₆) δ 1.13-1.28 (m, 12H), 3.74-3.81 (m, 2H), 3.95-4.08 (m, 1H), 4.20-4.45 (m, 2H), 4.83-4.87 (m, 1H), 5.52-5.58 (m, 1H), 5.84-6.15 (m, 3H), 7.17-7.23 (m, 3H), 7.35-7.39 (m, 2H), 7.54-7.57 (m, 1H), 11.50 (s, 1H); MS, m/e 530.2 (M + 1)+
25	Ph	H	H	Me	i-Pr	¹ H NMR (400 MHz, DMSO-d ₆) δ = 1.78-0.82 (m, 3H), 1.29-1.47 (m, 8H), 1.49-1.54 (m, 2H), 3.66-3.87 (m, 5H), 3.96-4.02 (m, 3H), 4.21-4.39 (m, 2H), 5.57 (t, J = 12.0 Hz, 1H), 5.84-6.05 (m, 3H), 6.90 (dd, J1 = 8.0 Hz, J2 = 4.0 Hz, 2H), 7.09-7.14 (dd, J1 = 16.0 Hz, J2 = 4.0 Hz, 2H), 7.55 (d, J = 8.0 Hz, 1H), 11.48-11.62 (s, 1H)
26	4-MeO—Ph	H	H	Me	n-Bu	¹ H NMR (DMSO-d ₆) δ 1.12-1.28 (m, 9H), 3.72-3.94 (m, 2H), 3.98-4.10 (m, 3H), 4.21-4.42 (m, 2H), 5.55-5.61 (t, 1H), 5.85-6.20 (m, 3H), 7.18-7.25 (m, 4H), 7.55-7.58 (d, 1H), 11.50 (s, 1H); MS, m/e 533.90 (M + 1)+
27	4-F—Ph	H	H	Me	Et	¹ H NMR (DMSO-d ₆) δ 1.13-1.30 (m, 12H), 3.74-3.85 (m, 2H), 3.98-4.06 (m, 1H), 4.23-4.41 (m, 2H), 4.83-4.87 (m, 1H), 5.55-5.61 (t, 1H), 5.85-6.12 (m, 3H), 7.18-7.24 (m, 4H), 7.55-7.58 (d, 1H), 11.50 (s, 1H); MS, m/e 547.91 (M + 1)+
28	4-F—Ph	H	H	Me	i-Pr	¹ H NMR (DMSO-d ₆) δ 1.10-1.23 (m, 6H), 3.65-3.89 (m, 3H), 4.10-4.30 (m, 2H), 4.96-5.00 (m, 2H), 5.46-5.50 (t, 1H), 5.75-5.96 (m, 2H), 6.04-6.12 (m, 1H), 7.05-7.11 (m, 4H), 7.20-7.24 (d, 5H), 7.42-7.45 (d, 1H), 11.50 (s, 1H); MS, m/e 595.94 (M + 1)+
29	4-F—Ph	H	H	Me	Bn	

-continued

Ex.	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	NMR/MS
30	4-MeO—Ph	H	H	Me	i-Pr	¹ H NMR (400 MHz, DMSO-d ₆): δ = 1.15-1.27 (m, 12H), 3.71-3.89 (m, 5H), 3.98-4.02 (m, 1H), 4.22-4.25 (m, 1H), 4.33-4.39 (m, 1H), 4.84-4.87 (m, 1H), 5.57 (t, J = 12.0 Hz, 1H), 5.91-6.03 (m, 3H), 6.90 (d, J = 8.0 Hz, 2H), 7.09-7.14 (m, 2H), 7.55 (d, J = 8.0 Hz, 1H), 11.51 (s, 1H) 1H NMR (DMSO-d ₆) δ 1.23 (m, 6H), 3.93-4.00 (m, 3H), 4.27-4.40 (m, 2H), 5.0 (t, J = 7.2 Hz, 2H), 5.53 (m, 1H), 5.80-6.0 (m, 2H), 6.30 (m, 1H), 7.15 (d, J = 2.4 Hz, 1H), 7.27 (m, 6H), 7.51 (m, 3H), 11.5 (s, 1H); MS, m/e 579.87 (M + 1)+/596.78 (M + 18)+
31	2-Cl—Ph	H	H	Me	Bn	¹ H NMR (DMSO-d ₆) δ = 0.82 (m, 3H), 1.23 (m, 8H), 1.47 (m, 2H), 3.86 (m, 2H), 3.84 (m, 3H), 4.27-4.43 (m, 2H), 5.5 (m, 1H), 6.02 (m, 2H), 6.35 (m, 1H), 7.44 (m, 3H), 7.77 (m, 1H), 11.5 (s, 1H); MS, m/e 611.87 (M + 1)+
32	2,4-Cl—Ph	H	H	Me	n-Bu	¹ H NMR (DMSO-d ₆) δ 1.14-1.27 (m, 12H), 2.17-2.26 (m, 3H), 3.73-3.82 (m, 1H), 3.99-4.02 (m, 1H), 4.23-4.26 (m, 1H), 4.37-4.40 (m, 1H), 4.82-4.88 (m, 1H), 5.52-5.58 (m, 1H), 5.85-6.07 (m, 3H), 7.01-7.20 (m, 4H), 7.55 (d, J = 16 Hz, 1H), 11.51 (s, 1H); MS, m/e 543.98 (M + 1)+; 1108.86 (2M + 23)+
33	4-Me—Ph	H	H	Me	i-Pr	¹ H NMR (DMSO-d ₆) δ 0.82-0.89 (m, 3H), 1.20-1.31 (m, 8H), 1.48-1.53 (m, 2H), 3.77-3.90 (m, 2H), 3.95-4.10 (m, 3H), 4.21-4.45 (m, 2H), 5.56-5.61 (t, 1H), 5.83-6.20 (m, 3H), 7.18-7.25 (m, 4H), 7.55-7.58 (d, 1H), 11.50 (s, 1H); MS, m/e 584.1 (M + 23)+
34	4-F—Ph	H	H	Me	n-Bu	¹ H NMR (DMSO-d ₆) δ 1.12-1.31 (m, 9H), 3.77-3.92 (m, 2H), 3.95-4.08 (m, 3H), 4.21-4.45 (m, 2H), 5.56-5.62 (t, 1H), 5.80-6.11 (m, 2H), 6.18-6.33 (m, 1H), 7.18-7.25 (m, 1H), 7.49-7.56 (d, 2H), 7.62-7.67 (m, 1H), 11.50 (s, 1H); MS, m/e 606.1 (M + 23)+
35	3,4-diCl—Ph	H	H	Me	Et	¹ H NMR (400 MHz, DMSO-d ₆): δ = 1.12-1.16 (m, 6H), 1.21-1.27 (m, 6H), 3.79-3.85 (m, 2H), 4.00-4.07 (m, 1H), 4.28-4.32 (m, 1H), 4.38-4.43 (m, 1H), 4.83-4.87 (m, 1H), 5.56 (dd, J ₁ = 16.0 Hz, J ₂ = 8.0 Hz, 1H), 5.85-6.12 (m, 2H), 6.20-6.33 (m, 1H), 7.19-7.22 (m, 1H), 7.33 (t, J = 16.0 Hz, 1H), 7.48-7.55 (m, 3H), 11.55 (s, 1H)
36	2-Cl—Ph	H	H	Me	i-Pr	¹ H NMR (400 MHz, DMSO-d ₆): δ = 1.19-1.26 (m, 6H), 3.69-3.70 (s, 3H), 3.87 (m, 2H), 3.99 (m, 1H), 4.20-4.21 (m, 1H), 4.35 (m, 1H), 5.07-5.09 (m, 2H), 5.54 (t, J = 16.0 Hz, 1H), 5.85-5.92 (m, 1H), 6.04-6.10 (m, 2H), 6.86 (d, J = 8.0 Hz, 2H), 7.09 (dd, J ₁ = 16.0 Hz, J ₂ = 4.0 Hz, 2H), 7.30-7.34 (m, 5H), 7.53 (s, 1H), 11.52 (s, 1H)
37	4-MeO—Ph	H	H	Me	Bn	¹ H NMR (DMSO-d ₆) δ 0.79-0.81 (m, 3H), 1.17-1.23 (m, 10H), 3.74-3.81 (m, 2H), 3.94-3.96 (m, 3H), 4.19-4.36 (m, 2H), 5.49-5.54 (m, 1H), 5.87-6.08 (m, 3H), 7.14-7.33 (m, 3H), 7.31-7.35 (m, 2H), 7.51 (d, J = 8 Hz, 1H), 11.51 (s, 1H); MS, m/e 557.9 (M + 1)+; 1136.88 (2M + 23)+
38	Ph	H	H	Me	n-Pen	¹ H NMR (DMSO-d ₆) δ 1.04-1.19 (m, 12H), 3.76-3.80 (m, 2H), 3.98-4.08 (m, 1H), 4.42-4.42 (m, 2H), 4.82-4.85 (m, 1H), 5.55-5.60 (m, 1H), 5.80-6.20 (m, 3H), 7.20-7.25 (m, 2H), 7.43 (d, J = 8.8 Hz, 1H), 7.54 (d, J = 8 Hz, 1H), 11.51 (s, 1H); MS, m/e 563.88 (M + 1)+; 1148.73 (2M + 23)+
39	4-Cl—Ph	H	H	Me	i-Pr	¹ H NMR (DMSO-d ₆) δ 0.85 (t, J = 7.2 Hz, 3H), 1.22-1.33 (m, 8H), 1.45-1.53 (m, 2H), 3.80-3.87 (m, 2H), 3.96-4.04 (m, 3H), 4.24-4.27 (m, 1H), 4.35-4.39 (m, 1H), 5.56-5.61 (m, 1H), 5.82-6.11 (m, 2H), 6.15-6.18 (m, 1H), 7.20-7.56 (m, 4H), 7.51-7.57 (m, 1H), 11.54 (s, 1H); MS, m/e 577.95 (M + 1)+
40	4-Cl—Ph	H	H	Me	n-Bu	¹ H NMR (DMSO-d ₆) δ 1.14 (t, J = 7.0 Hz, 3H), 1.20-1.28 (m, 6H), 3.77-3.88 (m, 2H), 3.99-4.07 (m, 3H), 4.24-4.28 (m, 1H), 4.34-4.43 (m, 1H), 5.56-5.61 (m, 1H), 5.86-6.13 (m, 2H), 6.15-6.24 (m, 1H), 7.20-7.26 (m, 2H), 7.44 (d, J = 7.6 Hz, 2H), 7.55 (d, J = 7.6 Hz, 1H), 11.55 (s, 1H); MS, m/e 549.11 (M + 1)+
41	4-Cl—Ph	H	H	Me	Et	¹ H NMR (DMSO-d ₆) δ 0.79-0.83 (m, 3H), 1.17-1.28 (m, 8H), 1.45-1.47 (m, 2H), 2.22 (d, J = 2.8 Hz, 1H), 3.70-3.90 (m, 2H), 3.95-3.98 (m, 3H), 4.10-4.40 (m, 2H), 5.51 (t, 1H), 5.80-5.90 (m, 1H), 5.95-6.05 (m, 2H), 7.02-7.06 (m, 2H), 7.51 (t, J = 4.2 Hz, 4H), 7.51 (d, 1H), 11.51 (s, 1H); MS, m/e 557.99 (M + 1)+; 1136.84 (2M + 23)+
42	4-Me—Ph	H	H	Me	n-Bu	¹ H NMR (DMSO-d ₆) δ 1.16-1.24 (m, 6H), 2.22 (s, 3H), 3.65-4.03 (m, 3H), 4.11-4.38 (m, 2H), 5.04-5.05 (m, 2H), 5.48-5.50 (m, 1H), 5.77-5.87 (m, 1H), 5.90-6.11 (m, 2H), 6.98-7.10 (m, 4H), 7.28-7.32 (m, 5H), 7.50 (t, 1H), 11.48 (s, 1H); MS, m/e 592.00 (M + 1)+
43	4-Me—Ph	H	H	Me	Bn	¹ H NMR (DMSO-d ₆) δ 0.70-0.80 (m, 3H), 1.11-1.26 (m, 3H), 1.42-1.61 (m, 2H), 3.50-3.54 (m, 3H), 3.58-3.80 (m, 2H), 3.91-4.02 (m, 1H), 4.12-4.38 (m, 2H), 5.47-5.52 (m, 1H), 5.90-6.03 (m, 2H), 7.08-7.16 (m, 3H), 7.26-7.35 (m, 2H), 7.48 (t, 1H), 11.45 (s, 1H); MS, m/e 515.95 (M + 1)+; 1052.82 (2M + 23)+
44	Ph	H	H	Et	Me	¹ H NMR (400 MHz, DMSO-d ₆): δ 1.20-1.26 (m, 6H), 3.80-3.93 (m, 2H), 3.98 (s, 1H), 4.25-4.26 (m, 1H), 4.36-4.37 (m, 1H), 5.07 (s, 2H), 5.52-5.55 (m, 1H), 5.86-5.87 (m, 1H), 5.98-6.04 (m, 1H), 6.14-6.17 (m, 1H), 7.15-7.20 (m, 5H), 7.36 (dd, J = 20.0, 8.0 Hz, 4H), 7.54 (s, 1H), 11.55 (s, 1H)
45	Ph	H	H	Me	4-F—Bn	

-continued

Ex.	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	NMR/MS
46	4-Cl—Ph	H	H	Me	n-Bu	¹ H NMR (400 MHz, DMSO-d ₆): δ 1.21-1.28 (m, 6H), 3.71-3.88 (m, 1H), 3.91-3.98 (m, 1H), 4.00-4.01 (m, 1H), 4.23-4.27 (m, 1H), 4.35-4.38 (m, 1H), 5.08 (d, J = 4.0 Hz, 2H), 5.57 (dd, J = 12.0, 8.0 Hz, 1H), 5.91 (d, J = 8.0 Hz, 1H), 6.01 (d, J = 8.0 Hz, 1H), 6.22-6.24 (m, 1H), 7.17-7.23 (m, 2H), 7.31-7.40 (m, 7H), 7.53 (s, 1H), 11.50 (s, 1H)
47	Ph	H	H	Me	3-Me-1-Bu	¹ H NMR (DMSO-d ₆) δ 0.80-0.82 (m, 6H), 1.18-1.40 (m, 8H), 1.50-1.58 (m, 1H), 3.71-3.82 (m, 3H), 3.97-3.4.01 (m, 3H), 4.21-4.40 (m, 2H), 5.30 (t, J = 8.6 Hz, 1H), 5.81-6.10 (m, 3H), 7.15-7.20 (m, 3H), 7.32-7.36 (m, 2H), 7.48 (d, J = 8.4 Hz, 1H), 11.38 (s, 1H); MS, m/e 557.98 (M + 1) ⁺ ; 1136.88 (2M + 23) ⁺
48	3,4-diCl—Ph	H	H	Me	Bn	¹ H NMR (DMSO-d ₆) δ 1.05-1.37 (m, 6H), 3.71-3.82 (m, 1H), 3.87-4.02 (m, 2H), 4.28-4.29 (m, 1H), 4.36-4.38 (m, 1H), 5.04 (d, J = 5.2 Hz, 2H), 5.55-5.64 (m, 1H), 5.85-5.94 (m, 1H), 6.00-6.05 (m, 1H), 6.29-6.40 (m, 1H), 7.17-7.24 (m, 1H), 7.30-7.41 (m, 5H), 7.45-7.58 (m, 2H), 7.61 (d, J = 4.0 Hz, 1H), 11.53 (s, 1H); MS, m/e 545.80 (M + 1) ⁺ ; ¹ H NMR (DMSO-d ₆) δ 1.18-1.41 (m, 12H), 1.59-1.67 (m, 4H), 3.74-13.80 (m, 1H), 3.96-4.02 (m, 1H), 4.19-4.26 (m, 1H), 4.31-4.39 (m, 1H), 4.60 (s, 1H), 5.52 (t, J = 7.8 Hz, 1H), 5.80-6.09 (m, 3H), 7.15-7.20 (m, 3H), 7.32-7.36 (m, 2H), 7.52 (d, J = 8 Hz, 1H), 11.50 (s, 1H); MS, m/e 569.98 (M + 1) ⁺ ; 592.14 (M + 23) ⁺
49	Ph	H	H	Me	c-Hex	¹ H NMR (DMSO-d ₆) δ 0.76 (t, J = 7.2 Hz, 3H), 1.10-1.22 (m, 8H), 1.38-1.43 (m, 2H), 3.72-3.75 (m, 2H), 3.87-3.93 (m, 3H), 4.14-4.21 (m, 1H), 4.23-4.33 (m, 1H), 5.46-5.54 (m, 1H), 5.84-6.11 (m, 3H), 7.09-7.14 (m, 2H), 7.27-7.32 (m, 2H), 7.34-7.51 (m, 1H), 11.47 (s, 1H); MS, m/e 543.98 (M + 1) ⁺
50	Ph	H	Me	H	n-Bu	¹ H NMR (DMSO-d ₆) δ 1.39 (d, J = 7.2 Hz, 6H), 1.19-1.29 (m, 6H), 3.65-3.75 (m, 2H), 3.95-4.05 (m, 1H), 4.20-4.22 (m, 1H), 4.31-4.33 (m, 1H), 4.79-4.82 (m, 1H), 5.48-5.57 (m, 1H), 5.84-5.91 (m, 1H), 5.96-6.07 (m, 2H), 7.12-7.35 (m, 5H), 7.44-7.54 (m, 1H), 11.49 (s, 1H); MS, m/e 529.96 (M + 1) ⁺
51	Ph	H	Me	H	i-Pr	¹ H NMR (DMSO-d ₆) δ 1.18-1.28 (m, 6H), 3.70-3.83 (m, 1H), 3.87-3.94 (m, 1H), 3.99-4.01 (m, 1H), 4.23-4.26 (m, 1H), 4.33-4.37 (m, 1H), 5.03-5.12 (m, 2H), 5.51-5.59 (m, 1H), 5.87-5.90 (m, 1H), 5.95-6.07 (m, 1H), 6.10-6.27 (m, 1H), 7.15-7.23 (m, 3H), 7.31-7.38 (m, 7H), 7.47-7.56 (m, 1H), 11.50 (s, 1H); MS, m/e 577.99 (M + 1) ⁺
52	Ph	H	Me	H	Bn	¹ H NMR (400 MHz, DMSO-d ₆): δ 0.81-0.86 (m, 3H), 1.21-1.31 (m, 8H), 1.46-1.52 (m, 2H), 3.84-3.90 (m, 2H), 3.97-4.04 (m, 3H), 4.27-4.41 (m, 2H), 5.53-5.58 (m, 1H), 5.82-5.95 (m, 1H), 5.96-6.10 (m, 1H), 6.27-6.31 (m, 1H), 7.19-7.22 (m, 1H), 7.34 (dd, J = 8.0, 4.0 Hz, 1H), 7.47-7.55 (m, 3H), 11.55 (s, 1H)
53	2-Cl—Ph	H	H	Me	n-Bu	¹ H NMR (400 MHz, DMSO-d ₆): δ 1.10-1.14 (m, 6H), 1.20-1.27 (m, 6H), 3.74-3.81 (m, 2H), 3.99-4.01 (m, 1H), 4.21-4.25 (m, 1H), 4.37-4.38 (m, 1H), 4.81-4.85 (m, 1H), 5.58 (dd, J = 8.0, 4.0 Hz, 1H), 5.82-5.95 (m, 1H), 5.96-6.09 (m, 1H), 6.10-6.13 (m, 1H), 7.18 (dd, J = 12.0, 8.0 Hz, 2H), 7.53-7.57 (m, 3H), 11.52 (s, 1H)
54	4-Br—Ph	H	H	Me	i-Pr	¹ H NMR (DMSO-d ₆) δ 1.20-1.44 (m, 12H), 1.60-1.71 (m, 4H), 3.75-4.02 (m, 2H), 3.94-4.02 (m, 1H), 4.19-4.26 (m, 2H), 4.59-4.61 (m, 1H), 5.57 (t, J = 8.4 Hz, 1H), 5.85-6.06 (m, 3H), 7.17-7.23 (m, 4H), 7.54 (d, J = 8.4 Hz, 1H), 11.50 (s, 1H); MS, m/e 587.92 (M + 1) ⁺
55	4-F—Ph	H	H	Me	c-Hex	¹ H NMR (400 MHz, DMSO-d ₆): δ 1.18-1.46 (m, 12H), 1.61-1.69 (m, 4H), 3.75-3.82 (m, 2H), 3.95-4.08 (m, 1H), 4.25-4.28 (m, 1H), 4.38 (s, 1H), 4.60-4.62 (m, 1H), 5.56-5.60 (m, 1H), 5.82-5.95 (m, 1H), 6.02-6.20 (m, 2H), 7.09-7.20 (m, 2H), 7.53-7.57 (m, 3H), 11.52 (s, 1H)
56	4-Br—Ph	H	H	Me	c-Hex	MS, m/e 650.0 (M + 3) ⁺
57	Ph	H	H	Et	i-Pr	¹ H NMR (400 MHz, DMSO-d ₆): δ = 0.75-0.82 (m, 3H), 1.12-1.26 (m, 9H), 1.52-1.59 (m, 2H), 3.55-3.68 (m, 1H), 3.72-3.85 (m, 1H), 3.95-4.08 (m, 1H), 4.18-4.28 (m, 1H), 4.32-4.41 (m, 1H), 4.83-4.86 (m, 1H), 5.55 (m, J = 7.6 Hz, 1H), 5.99-6.04 (m, 2H), 6.05-6.10 (m, 1H), 7.14-7.21 (m, 3H), 7.33-7.37 (m, 2H), 7.52-7.54 (m, 1H), 11.53 (s, 1H); MS, m/e 566.07 (M + 23) ⁺
58	Ph	H	H	Et	c-Hex	¹ H NMR (400 MHz, DMSO-d ₆): δ 0.75-0.88 (m, 3H), 1.26-1.46 (m, 9H), 1.52-1.69 (m, 6H), 3.60-3.63 (m, 1H), 3.72-3.90 (m, 1H), 4.02-4.03 (m, 1H), 4.24-4.27 (m, 1H), 4.37-4.38 (m, 1H), 4.63-4.65 (m, 1H), 5.55 (dd, J = 8.0 Hz, 4.4 Hz, 1H), 5.80-5.95 (m, 1H), 6.00-6.07 (m, 2H), 7.15-7.22 (m, 3H), 7.34-7.38 (m, 2H), 7.54 (d, J = 8.0 Hz, 1H), 11.55 (s, 1H); MS, m/e 584.01 (M + 1) ⁺ ; 606.17 (M + 23) ⁺
59	4-F—Ph	H	H	Et	c-Hex	¹ H NMR (DMSO-d ₆) δ 0.75-0.84 (m, 3H), 1.24 (d, J = 22.8 Hz, 3H), 1.29-1.47 (m, 6H), 1.51-1.70 (m, 6H), 3.59-3.66 (m, 1H), 3.77-3.84 (m, 1H), 3.98-4.04 (m, 1H), 4.21-4.27 (m, 1H), 4.34-4.41 (m, 1H), 4.60-4.65 (m, 1H), 5.56-5.60 (m, 1H), 5.84-5.90 (m, 1H), 6.00-6.08 (m, 2H), 7.20-7.24 (m, 4H), 7.56 (d, J = 8.0 Hz, 1H), 11.49 (s, 1H); MS, m/e 602.00 (M + 1) ⁺
60	Ph	H	H	Me	F-CH ₂ -CH ₂ -	¹ H NMR (DMSO-d ₆) δ 1.18-1.25 (m, 6H), 3.71-3.89 (m, 2H), 3.92-3.99 (m, 1H), 4.19-4.27 (m, 4H), 4.48-4.61 (m, 2H), 3.94-3.98 (m, 2H), 4.11-4.23 (m, 4H), 5.47-5.52 (m, 1H), 6.01-6.11 (m, 1H), 5.90-6.14 (m, 2H), 7.15-7.21 (m, 3H), 7.32-7.36 (m, 2H), 7.46-7.57 (m, 1H), 11.49 (s, 1H); MS, m/e 533.86 (M + 1) ⁺

-continued

Ex.	R ¹	R ²	R ^{3a}	R ^{3b}	R ⁴	NMR/MS
61	Ph	H	H	Me	F ₂ CH—CH ₂ —	¹ H NMR (DMSO-d ₆) δ 1.17-1.24 (m, 6H), 3.67-3.81 (m, 1H), 3.89-3.98 (m, 2H), 4.21-4.36 (m, 4H), 5.48-5.53 (m, 1H), 5.82-6.05 (m, 2H), 6.18-6.22 (m, 2H), 7.15-7.20 (m, 3H), 7.32-7.36 (m, 2H), 7.51 (s, 1H), 11.50 (s, 1H); MS, m/e 551.92 (M + 1) ⁺ ;
62	Ph	H	H	Me	(CF ₃) ₂ —CH—	¹ H NMR (DMSO-d ₆) δ 1.13-1.29 (m, 6H), 3.67-3.81 (m, 1H), 3.94-4.32 (m, 4H), 5.47 (t, J = 8 Hz 1H), 5.82-6.01 (m, 2H), 6.33-6.36 (m, 1H), 6.70-6.78 (m, 1H), 7.09-7.15 (m, 3H), 7.28-7.32 (m, 2H), 7.43-7.46 (m, 1H), 11.44 (s, 1H); MS, m/e 637.90 (M + 1) ⁺
63	Ph	H	H	Me	(CH ₂ F) ₂ —CH—	¹ H NMR (DMSO-d ₆) δ 1.20-1.29 (m, 6H), 3.70-3.90 (m, 1H), 3.91-4.12 (m, 2H), 4.20-4.33 (m, 1H), 4.35-4.48 (m, 1H), 4.52-4.55 (m, 2H), 4.63-4.67 (m, 2H), 5.20-5.35 (m, 1H), 5.56 (t, J = 8.4 Hz, 1H), 5.80-5.95 (m, 1H), 5.95-6.10 (m, 1H), 6.18-6.21 (m, 1H), 7.18-7.23 (m, 3H), 7.35-7.39 (m, 2H), 7.54 (s, 1H), 11.55 (s, 1H); MS, m/e 565.98 (M + 1) ⁺
64	Ph	H	H	Me	c-Pr—CH ₂ —	¹ H NMR (DMSO-d ₆) δ 0.20-0.24 (m, 2H), 0.47-0.48 (m, 2H), 0.76-0.84 (m, 3H), 1.03-1.05 (m, 1H), 1.23 (dd, J = 22.4 6.8 Hz 3H), 1.55-1.60 (m, 2H), 3.61-3.68 (m, 1H), 3.81-3.89 (m, 3H), 3.98-4.03 (m, 1H), 4.23-4.29 (m, 1H), 4.35-4.41 (m, 1H), 5.56-6.00 (m, 1H), 5.88-5.91 (m, 1H), 6.04-6.10 (m, 2H), 7.20-7.24 (m, 4H), 7.55 (d, J = 7.6 Hz 1H), 11.53 (s, 1H); MS, m/e 573.17 (M + 1) ⁺
65	Ph	H	H	Et	c-Pen	¹ H NMR (DMSO-d ₆) δ 0.75-0.83 (m, 3H), 1.20-1.28 (m, 3H), 1.49-1.63 (m, 8H), 1.76-1.80 (m, 2H), 3.58-3.60 (m, 1H), 3.70-3.82 (m, 1H), 3.98-4.05 (m, 1H), 4.24-4.26 (m, 1H), 4.37-4.42 (m, 1H), 5.03 (s, 1H), 5.54-5.57 (m, 1H), 5.90-6.00 (m, 1H), 6.02-6.07 (m, 2H), 7.15-7.22 (m, 3H), 7.35-7.39 (m, 2H) 7.55 (d, J = 8.0 Hz, 1H), 11.55 (s, 1H); MS, m/e 570.03 (M + 1) ⁺

*R² and R^{3b} together are —(CH₂)₃— as derived from L-proline

The Purification Procedure by Prep-HPLC:

Crude products were dissolved in methanol. Injection volumes of these solutions were 5 mL.

The preparative HPLC system including 2 sets of Gilson 306 pumps, a Gilson 156 UV/Vis detector, a Gilson 215 injector & fraction collector, with Unipoint control software. AYmc 25×30×2 mm column was used. The mobile phase was HPLC grade water (A), and HPLC grade acetonitrile (B). Fractions were collected into 100*15 mm glass tubes.

HPLC gradient is shown in Table 1. Once the gradient was selected, acetonitrile solution was injected into HPLC system, and then fractions collected according to UV peaks. After the separation, each glass tubes were run MS test to collect the desired compounds. The fractions with target MS were combined in a well-weighted flask. Most of acetonitrile

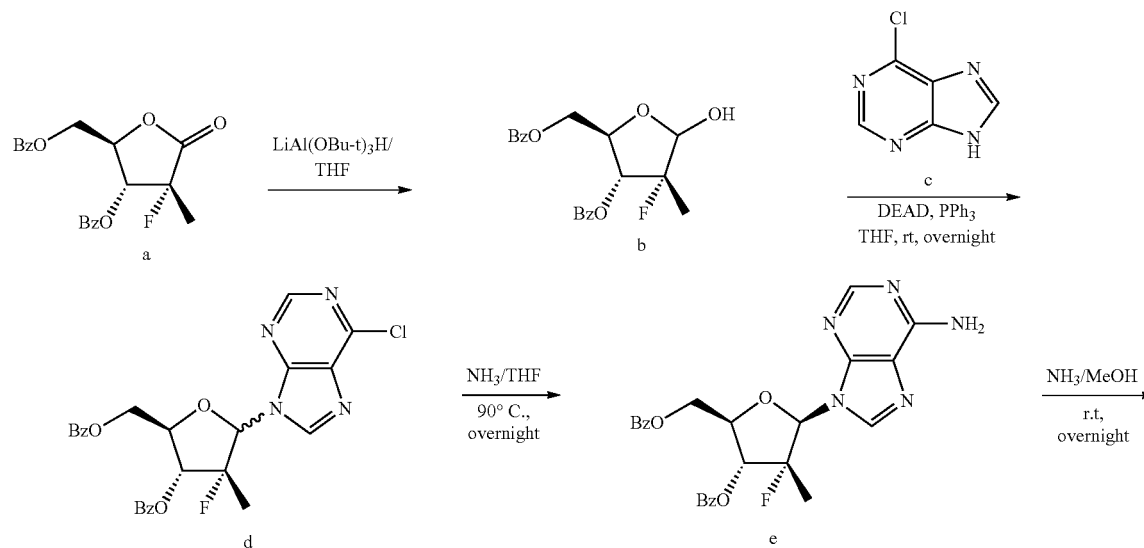
was removed under reduce pressure and the remaining solution was freeze-dried to give desired compound.

TABLE 1

Preparative HPLC gradient			
Time (min)	Flow rate (mL/min)	% A	% B
0	15	90	10
30	15	60	40

Preparation of Example 66

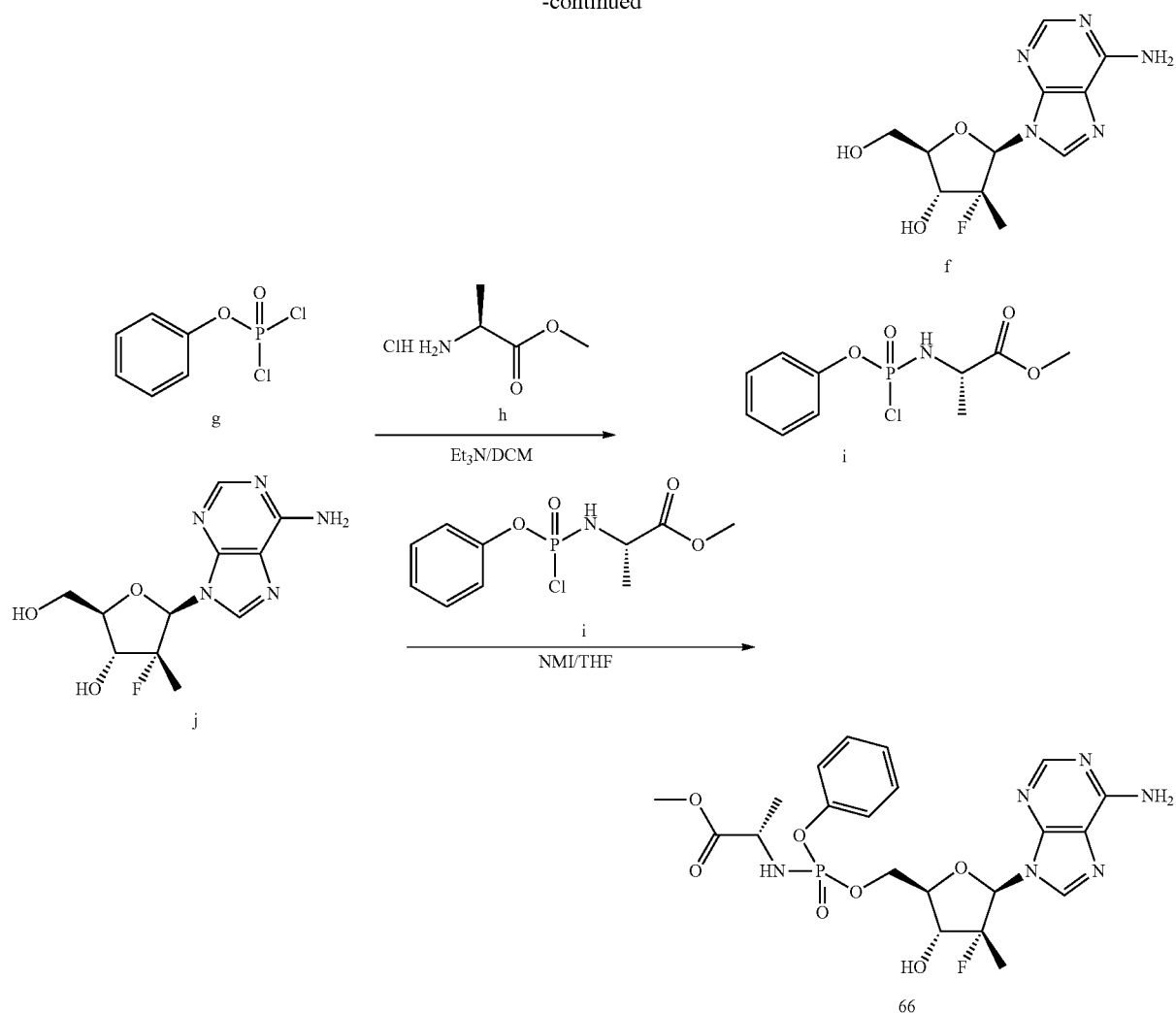
Scheme



617

-continued

618



Preparation of Compound (b)

To a solution of compound **a** (1 g, 2.69 mmol) in anhydrous THF (30 mL) was added dropwise 1 M solution of LiAl(OBu)₃H in THF (2.69 mL, 2.69 mmol) at -20° C. The reaction mixture was stirred for 2-3 h at the same temperature. EtOAc (100 mL) was added followed by saturated NH₄Cl solution (10 mL) and reaction mixture was slowly brought to room temperature. Reaction mixture was extracted with EtOAc and washed with 1N HCl and water. Combined organic phase was evaporated to give 0.8 g of crude compound **b** as transparent oil, which was used directly for next reaction.

Preparation of Compound (d)

To a solution of compound **b** (0.8 g, 2.1 mmol), compound **c** (0.45 g, 2.5 mmol) and Ph₃P (0.56 g, 2.1 mmol) in anhydrous THF (20 mL) under nitrogen atmosphere was added DEAD (1.8 mL). The reaction mixture was stirred at room temperature overnight. The reaction solution was concentrated under reduced pressure. The residue was separated by preparative layer chromatography (hexanes:EtOAc=3:1) to give crude compound **d** (0.8 g). The crude compound **d** was used to the next step without further purification.

Preparation of Compound (e)

Compound **d** (0.8 g, 1.57 mmol) was dissolved in THF (2 mL) and THF saturated with ammonia (5 mL) was then added

to this solution. The reaction mixture was heated to 90° C. overnight. After 18 hours, the solution was cooled to room temperature by ice water, then the solvent was removed under reduced pressure and the residue was purified by column to give compound **e** (0.75 g) for the next step.

Preparation of Compound (f)

Compound **e** (0.5 g, 1.01 mmol) was dissolved in methanol (2 mL) and methanol was saturated with ammonia (5 mL) was then added to this solution. The reaction mixture was stirred at room temperature overnight. After 18 hours, the solvent was removed under reduced pressure and the residue was purified by column to give crude compound **f** (0.15 g) for the next step.

Preparation of Compound (i)

A solution of triethylamine (1.07 g, 10.6 mmol) in anhydrous dichloromethane (15 mL) was added dropwise to a solution of compound **g** (1.16 g, 5.3 mmol) and compound **h** (1.31 g, 5.3 mmol) in dichloromethane (10 mL) with vigorous stirring at -78° C. over a period of 2 hours. After completion of addition, the reaction temperature was allowed to warm to room temperature gradually and stirred overnight. Then the solvent was removed under vacuum and anhydrous ether 20 mL was added and the precipitated salt was filtered and the

619

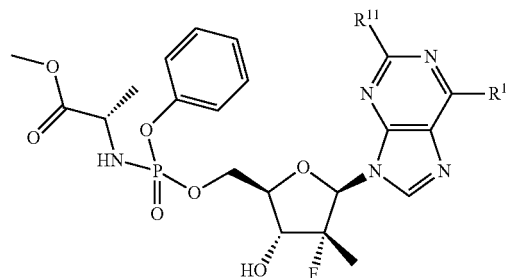
precipitate was washed with ether. The combined organic phase was concentrated to give the colorless oil of compound i (1.0 g).

Preparation of Compound 66

To a solution of compound j (0.1 g, 0.35 mmol) dissolved in 10 mL of anhydrous THF, stirred and added 0.4 g NMI till the solution became clear, added compound i (0.8 g, 2.89 mmol) in 10 mL THF dropwise, stirred at r.t. overnight. Compound purity and identification was confirmed by LCMS. The solvent was evaporated and purified by Prep-HPLC to afford 66. (25 mg, Yield: 13.6%). ¹H NMR (DMSO-d₆) δ 1.08 (d, J=22.8 Hz, 3H), 1.17-1.24 (m, 3H), 3.50-3.52 (m, 3H), 3.78-3.83 (m, 1H), 4.10-4.13 (m, 1H), 4.24-4.44 (m, 2H), 5.85-5.92 (m, 1H), 6.01-6.11 (m, 1H), 6.2-6.27 (m, 1H), 7.08-7.19 (m, 4H), 7.31-7.38 (m, 3H), 8.15 (s, 1H), 8.26 (s, 1H); MS, m/e 525 (M+1)⁺.

620

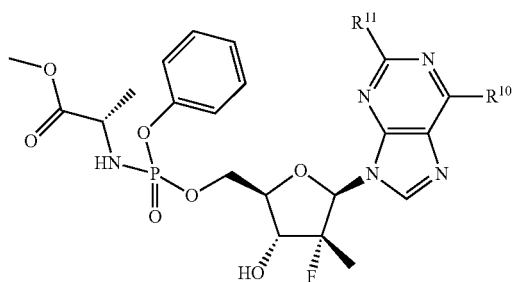
Example numbers 67-74, identified below, were prepared using similar procedures disclosed for Example 66, above.



Example	R ¹¹	R ¹⁰	NMR/MS
67	OH	NH ₂	¹ H NMR (DMSO-d ₆) δ 1.06-1.13 (m, 3H), 1.20-1.24 (m, 3H), 3.27-3.33 (m, 3H), 3.56 (s, 1H), 3.82-3.88 (m, 1H), 4.07-4.13 (m, 1H), 4.25-4.40 (m, 2H), 5.85-5.87 (m, 1H), 5.98-6.09 (m, 2H), 6.59 (s, 32H), 7.14-7.37 (m, 3H), 7.35-7.37 (m, 2H), 7.79 (d, J = 7.2 Hz, 1H), 10.69 (s, 1H); MS, m/e 541 (M + 1) ⁺ ;
68	NH ₂	NH ₂	¹ H NMR (DMSO-d ₆) δ 1.07 (d, J = 22.8 Hz, 3H), 1.19 (d, J = 7.2 Hz, 3H), 3.51 (s, 3H), 3.62 (s, 1H), 3.75-3.81 (m, 1H), 4.05-4.11 (m, 1H), 4.27-4.42 (m, 2H), 5.79-5.83 (m, 1H), 5.92 (s, 2H), 6.00-6.09 (m, 2H), 6.75 (s, 2H), 7.08-7.17 (m, 3H), 7.31-7.35 (m, 2H), 7.78 (s, 1H); MS, m/e 540 (M + 1) ⁺ ;
69	NH ₂	c-Pentyl-NH—	¹ H NMR (DMSO-d ₆) δ 1.05 (d, J = 22.8 Hz, 3H), 1.09-1.19 (m, 3H), 1.48 (s, 4H), 1.66 (s, 1H), 1.86 (s, 1H), 3.54 (d, J = 14 Hz, 3H), 3.65 (s, 1H), 4.25-4.43 (m, 4H), 5.71-5.82 (m, 1H), 5.94-6.04 (m, 4H), 7.11-7.24 (m, 3H), 7.26-7.34 (m, 2H), 7.77(d, J = 3.6 Hz, 1H); MS, m/e 608 (M + 1) ⁺
70	NH ₂		¹ H NMR (DMSO-d ₆) δ 1.07 (d, J = 22.4 Hz, 3H), 2.35-2.38 (m, 2H), 3.54 (d, J = 9.2 Hz, 3H), 3.59-3.62 (m, 2H), 3.65 (s, 1H), 3.75-3.82 (m, 1H), 4.01-4.13 (m, 2H), 4.22-4.40 (m, 6H), 5.75-5.85 (m, 1H), 6.00-6.07 (m, 4H), 7.15-7.21 (m, 3H), 7.32-7.35 (m, 2H), 7.79 (d, J = 4.0 Hz, 1H); MS, m/e 580 (M + 1) ⁺
71	NH ₂	Et ₂ N—	¹ H NMR (DMSO-d ₆) δ 1.06-1.28 (m, 12H), 3.55 (d, J = 4.8 Hz, 3H), 3.79-3.87 (m, 4H), 4.07-4.12 (m, 2H), 4.29-4.42 (m, 3H), 5.75-5.82 (m, 1H), 5.94 (s, 2H), 6.04-6.10 (m, 2H), 7.14-7.22 (m, 3H), 7.31-7.37 (m, 2H), 7.82 (d, J = 4.4 Hz, 1H); MS, m/e 596 (M + 1) ⁺
72	NH ₂	n-Propyl-NH—	¹ H NMR (DMSO-d ₆) δ 0.84 (t, J = 7.2 Hz, 3H), 1.01-1.01 (m, 3H), 1.09-1.12 (m, 3H), 1.51-1.56 (m, 2H), 3.48 (d, J = 15.2 Hz, 3H), 3.79-3.82 (m, 1H), 4.04-4.05 (m, 1H), 4.27-4.38 (m, 3H), 5.72-5.79 (m, 1H), 5.98-6.04 (m, 4H), 7.13-7.20 (m, 3H), 7.26-7.32 (m, 2H), 7.76 (d, J = 5.2 Hz, 1H); MS, m/e 582 (M + 1) ⁺
73	NH ₂	c-Butyl-NH—	¹ H NMR (DMSO-d ₆) δ 1.02-1.08 (m, 3H), 1.18 (d, J = 4.8 Hz, 3H), 1.44-1.61 (m, 2H), 2.02-2.17 (m, 4H), 3.51 (d, J = 10.8 Hz, 3H), 3.78-3.83 (m, 1H), 4.03-4.06 (m, 1H), 4.27-4.38 (m, 2H), 4.53-4.62 (m, 1H), 5.68-5.79 (m, 1H), 5.95-6.04 (m, 4H), 7.11-7.18 (m, 3H), 7.29-7.35 (m, 2H), 7.51-7.58 (m, 1H), 7.78 (d, J = 5.2 Hz, 1H); MS, m/e 594 (M + 1) ⁺
74	NH ₂		¹ H NMR (DMSO-d ₆) δ 0.97-1.20 (m, 6H), 2.18 (s, 3H), 2.19 (s, 4H), 3.43-3.47 (m, 3H), 3.75 (s, 1H), 4.01-4.06 (m, 4H), 4.22-4.35 (m, 3H), 5.69-5.75 (m, 1H), 5.98-6.05 (m, 3H), 7.09-7.15 (m, 3H), 7.25-7.29 (m, 2H), 7.77 (d, J = 3.6 Hz, 1H); MS, m/e 623 (M + 1) ⁺

621

Example numbers 75-80 are prepared using similar procedures disclosed for Example 66, above.



Example	R ¹¹	R ¹⁰
75	H	n-propyl-NH—
76	H	c-Butyl-NH—
77	H	c-Pentyl-NH—
78	H	
79	H	
80	H	

Example 81

Certain exemplified compounds were obtained as mixture of diastereomers because of the chirality at phosphorous. The diastereomers were separated on a Chiralpak-AS-H (2x25 cm) column under Supercritical Fluid Chromatography (SFC) conditions using 20% methanol in carbon dioxide as solvent. The absolute stereochemistry of the P-chiral center of the diastereomers were not determined. However, chromatographic resolution of these two diastereomers provides for isomers that are characterized as fast eluting and slow eluting isomers. Some examples are shown below.

622

Compound	EC90 (uM)	
5	Example 15 (Diastereomeric mixture)	0.86
	Fast Moving isomer of Example 15	1.35
	Slow Moving isomer of Example 15	0.26
	Example 39 (Diastereomeric mixture)	0.47
	Fast Moving isomer of Example 39	0.78
	Slow Moving isomer of Example 39	0.02
10	Example 49 (Diastereomeric mixture)	0.126
	Fast Moving isomer of Example 49	0.03
	Slow Moving isomer of Example 49	5.78

Example 82

15

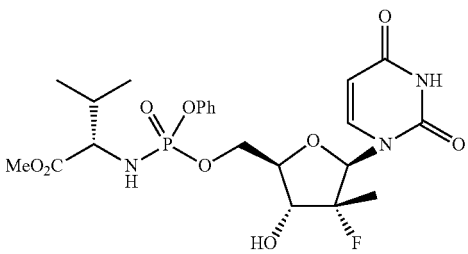
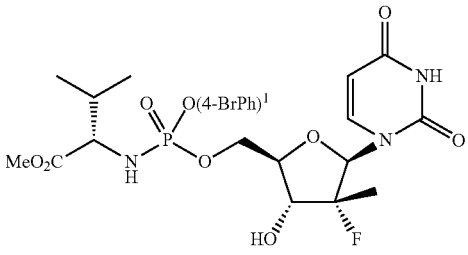
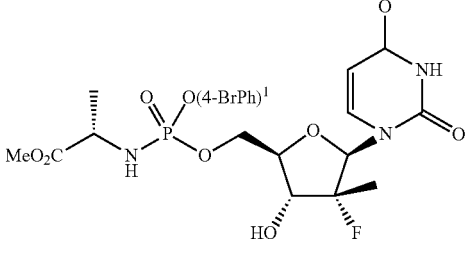
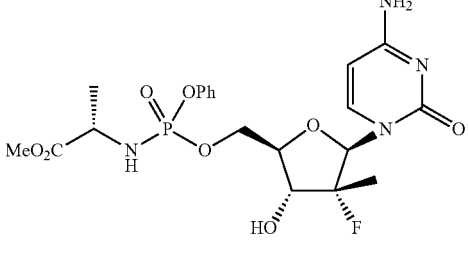
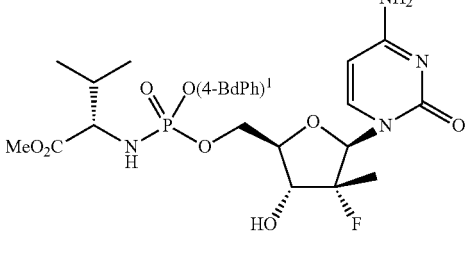
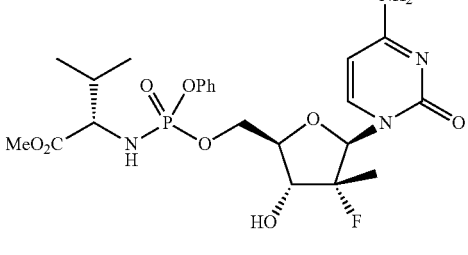
HCV Replicon Assay

HCV replicon RNA-containing Huh7 cells (clone A cells; Apath, LLC, St. Louis, Mo.) were kept at exponential growth in Dulbecco's modified Eagle's medium (high glucose) containing 10% fetal bovine serum, 4 mM L-glutamine and 1 mM sodium pyruvate, 1x nonessential amino acids, and G418 (1,000 µg/ml). Antiviral assays were performed in the same medium without G418. Cells were seeded in a 96-well plate at 1,500 cells per well, and test compounds were added immediately after seeding. Incubation time 4 days. At the end of the incubation step, total cellular RNA was isolated (RNeasy 96 kit; Qiagen). Replicon RNA and an internal control (TaqMan rRNA control reagents; Applied Biosystems) were amplified in a single-step multiplex RT-PCR protocol as recommended by the manufacturer. The HCV primers and probe were designed with Primer Express software (Applied Biosystems) and covered highly conserved 5'-untranslated region (UTR) sequences (sense primer: 5'-AGCCATGGCGT-TAGTA(T)GAGTGT-3' (SEQ ID NO:1); antisense primer: 5'-TTCCGAGACCACTATGG-3' (SEQ ID NO:2); and probe: 5'-FAM-CCTCCAGGACCCCCCTCCC-TAMRA-3' (SEQ ID NO:3)).

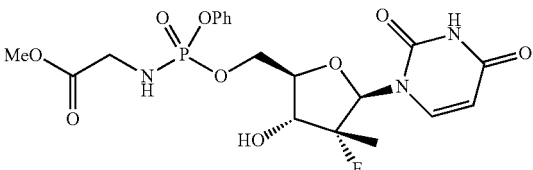
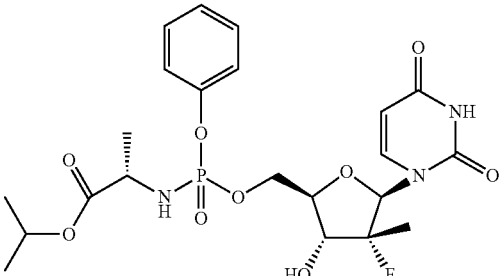
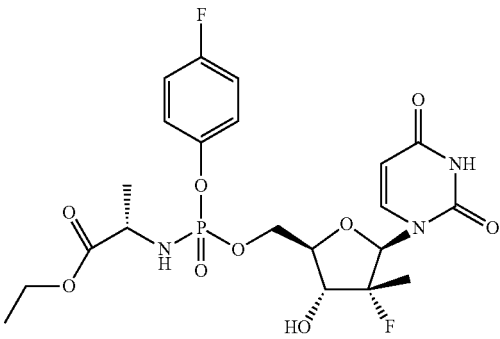
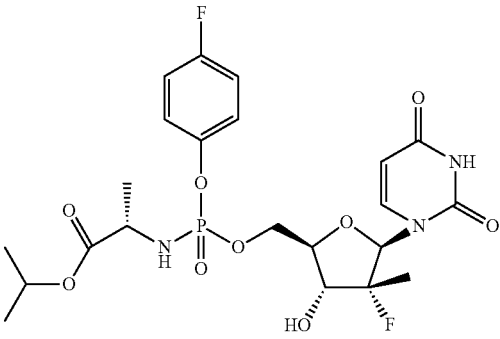
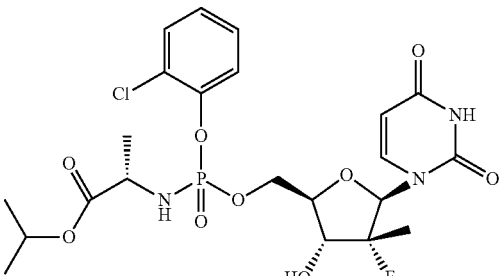
To express the antiviral effectiveness of a compound, the threshold RT-PCR cycle of the test compound was subtracted from the average threshold RT-PCR cycle of the no-drug control (ΔCt_{HCV}). A ΔCt of 3.3 equals a 1-log 10 reduction (equal to the 90% effective concentration [EC₉₀]) in replicon RNA levels. The cytotoxicity of the test compound could also be expressed by calculating the ΔCt_{rRNA} values. The $\Delta \Delta Ct$ specificity parameter could then be introduced ($\Delta Ct_{HCV} - \Delta Ct_{rRNA}$), in which the levels of HCV RNA are normalized for the rRNA levels and calibrated against the no-drug control.

Ex #	Compound	Log10 Reduction at 50 µM	EC90 (µM)
5		-1.21	3.0

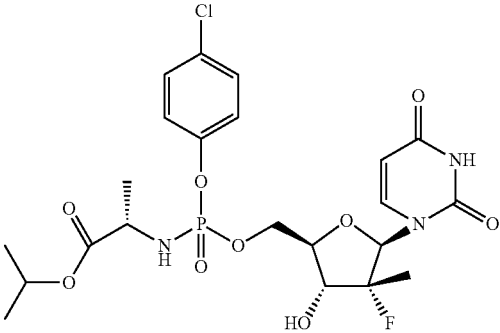
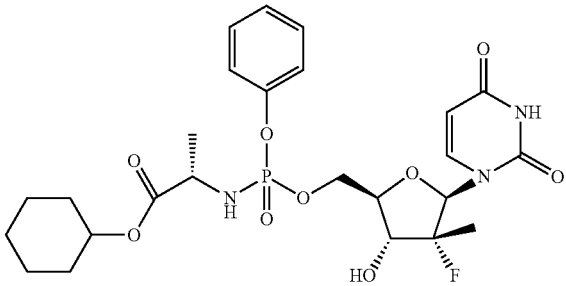
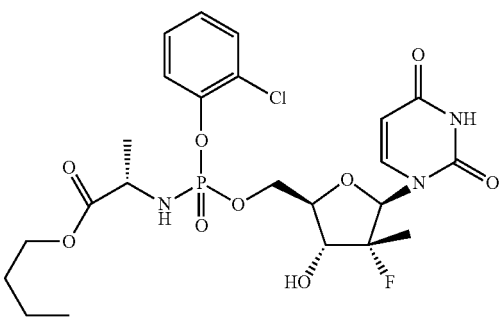
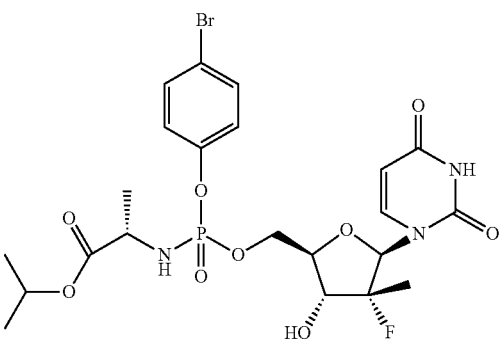
-continued

Ex #	Compound	Log10 Reduction at 50 μ M	EC90 (μ M)
6		-0.45	ND
7		0.31	ND
8		-1.48	2.11
10		-1.25	19.15
11		-0.55	ND
12		0.31	ND

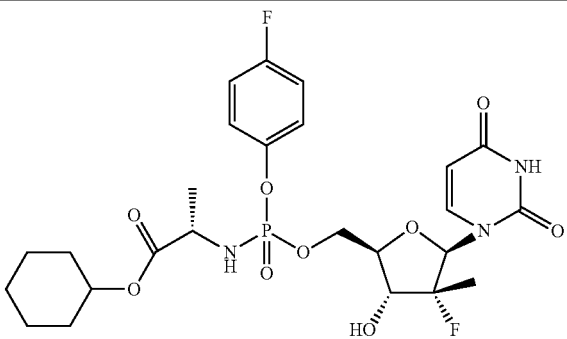
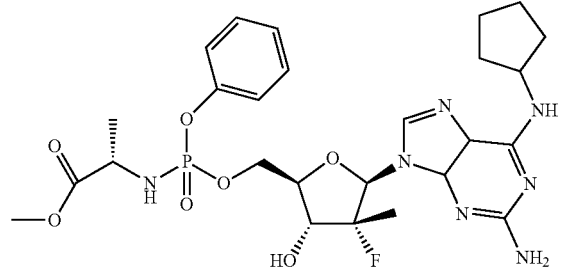
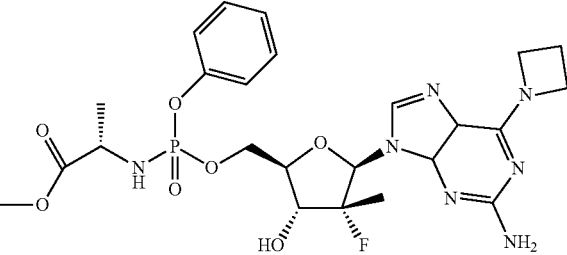
-continued

Ex #	Compound	Log10 Reduction at 50 μ M	EC90 (μ M)
15		ND	0.86
25		-2.22	0.39
27		-2.25	0.66
28		-2.16	0.75
36		-1.64	21.9

-continued

Ex #	Compound	Log10 Reduction at 50 μ M	EC90 (μ M)
39		-1.78	0.47
49		-2.69	0.126
53		-1.33	<0.3
54		-1.55	0.57

-continued

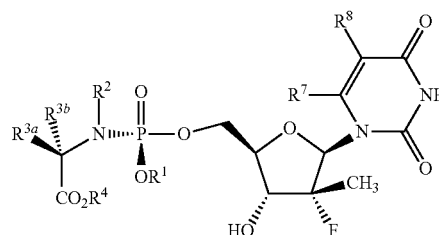
Ex #	Compound	Log10 Reduction at 50 μ M	EC90 (μ M)
55		-2.35	<0.3
69		-2.25	<0.3
70		-2.25	<0.3

¹(4-BrPh): 4-bromo-phenyl.

The entire contents of U.S. Provisional Application Nos. 60/909,315, filed Mar. 30, 2007, and 60/982,309, filed Oct. 24, 2007, are hereby incorporated by reference in the present application so far as needed to supplement the present disclosure and/or rectify any errors. Moreover, the patent and non-patent references disclosed herein are incorporated by reference. In the event that the incorporated patent and non-patent reference contains a term that conflicts with a term disclosed in either one of the two Provisional Applications or the present application text, the meaning of the term contained in the present application text and the two Provisional Applications controls provided that the overall meaning of the incorporated subject matter is not lost.

We claim:

1. A method of treating a human infected by hepatitis C virus, comprising administering to the subject an effective amount of an NS5a inhibitor and an effective amount of a compound represented by the following formula:



wherein

R¹ is hydrogen, methyl, ethyl, n-propyl, i-propyl, or a substituted or unsubstituted phenyl, where the substituent of the substituted phenyl is at least one of a CH₃, OCH₃, F, Cl, Br, I, nitro, cyano, and a CH_{3-q}X_q, where X is F, Cl, Br, or I, and q is 1-3;

R² is hydrogen or CH₃;

R^{3a} is H and R^{3b} is H, CH₃, CH(CH₃)₂, CH₂CH(CH₃)₂, CH(CH₃)CH₂CH₃, CH₂Ph, CH₂-indol-3-yl,

631

$-\text{CH}_2\text{CH}_2\text{SCH}_3$, $\text{CH}_2\text{CO}_2\text{H}$, $\text{CH}_2\text{C}(\text{O})\text{NH}_2$,
 $\text{CH}_2\text{CH}_2\text{COOH}$, $\text{CH}_2\text{CH}_2\text{C}(\text{O})\text{NH}_2$,
 $\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{NH}_2$, $-\text{CH}_2\text{CH}_2\text{CH}_2\text{NHC}(\text{NH})$
 NH_2 , CH_2 -imidazol-4-yl, CH_2OH , $\text{CH}(\text{OH})\text{CH}_3$,
 $\text{CH}_2((4'\text{-OH})\text{-Ph})$, CH_2SH , or lower cycloalkyl, or
 R^{3a} is CH_3 , $\text{CH}(\text{CH}_3)_2$, $\text{CH}_2\text{CH}(\text{CH}_3)_2$, $\text{CH}(\text{CH}_3)$
 CH_2CH_3 , CH_2Ph , CH_2 -indol-3-yl, $-\text{CH}_2\text{CH}_2\text{SCH}_3$,
 $\text{CH}_2\text{CO}_2\text{H}$, $\text{CH}_2\text{C}(\text{O})\text{NH}_2$, $\text{CH}_2\text{CH}_2\text{COOH}$,
 $\text{CH}_2\text{CH}_2\text{C}(\text{O})\text{NH}_2$, $\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{NH}_2$,
 $-\text{CH}_2\text{CH}_2\text{CH}_2\text{NHC}(\text{NH})\text{NH}_2$, CH_2 -imidazol-4-yl,
 CH_2OH , $\text{CH}(\text{OH})\text{CH}_3$, $\text{CH}_2((4'\text{-OH})\text{-Ph})$, CH_2SH , or
 lower cycloalkyl and R^{3b} is H;
 R^4 is hydrogen, CH_3 , Et, Pr , Pr , Bu , Bu , 2-butyl, Bu ,
 benzyl, cyclopropyl, cyclobutyl, cyclopentyl, cyclo-
 hexyl, N-methyl-aziridin-2-yl, N-methyl-azetidin-3-
 yl, N-methyl-pyrrolidin-3-yl, N-methyl-pyrrolidin-4-
 yl, N-methyl-piperidin-4-yl, lower haloalkyl, or
 di(lower alkyl)amino-lower alkyl; and
 R^7 and R^8 are independently H, F, Cl, Br, I, OH, OCH_3 ,
 SH , SCH_3 , NH_2 , NHCH_3 , $\text{N}(\text{CH}_3)_2$, CH_3 , $\text{CH}_{3-q}\text{X}_q$,
 where X is F, Cl, Br, or I and q is 1 to 3, vinyl, CO_2H ,

632

CO_2CH_3 , CONH_2 , CONHCH_3 , or $\text{CON}(\text{CH}_3)_2$,
 wherein R' is a C_{1-20} alkyl; a C_{1-20} cycloalkyl; a $\text{C}_2\text{-C}_6$
 alkenyl, a $\text{C}_2\text{-C}_6$ alkynyl.

2. The method of claim 1, wherein the compound is

