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- (54) **DERIVATIVES OF
3,3-DIPHENYLPROPYLAMINES**
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- (*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 156 days.

6,911,217 B1	6/2005	Gren et al.
2003/0124179 A1	7/2003	Jacobsen et al.
2003/0152624 A1	8/2003	Aldrich et al.
2003/0158176 A1	8/2003	Richards et al.
2004/0064821 A1	4/2004	Rousselle
2004/0186061 A1	9/2004	Meese et al.
2005/0004223 A1	1/2005	Slatter et al.

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- (63) Continuation of application No. 10/766,263, filed on Jan. 27, 2004, now Pat. No. 7,230,030, which is a continuation of application No. 09/700,094, filed as application No. PCT/EP99/03212 on May 11, 1999, now Pat. No. 6,713,464.

FOREIGN PATENT DOCUMENTS

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DE	830193	2/1952
DE	766207	12/1952
DE	925 468	3/1955
DE	1 216 318	5/1966
EP	325 571	7/1989
EP	667 852	8/1995
EP	831799	6/1996
EP	872233	4/1997
EP	948321	12/1997
EP	957073	5/1998
EP	1 019 358	7/2000
EP	1 077 912	2/2001
EP	1 128 819	9/2001
GB	624 117	5/1949
GB	627 139	7/1949
GB	685 696	1/1953
GB	689 835	4/1953
GB	690 274	4/1953
GB	692 931	6/1953

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- (58) **Field of Classification Search** 514/551;
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- See application file for complete search history.

(Continued)

- (56) **References Cited**
- U.S. PATENT DOCUMENTS
- | | | |
|--------------|---------|----------------------|
| 2,556,636 A | 6/1951 | Sperber et al. |
| 2,567,245 A | 9/1951 | Sperber et al. |
| 2,676,964 A | 4/1954 | Sperber et al. |
| 3,261,841 A | 7/1966 | Zenitz |
| 3,446,901 A | 5/1969 | Macclesfield |
| 4,988,730 A | 1/1991 | Korbonits et al. |
| 5,382,600 A | 1/1995 | Jonsson et al. |
| 5,559,269 A | 9/1996 | Johansson et al. |
| 5,686,464 A | 11/1997 | Johansson et al. |
| 5,922,914 A | 7/1999 | Gage et al. |
| 6,310,248 B2 | 10/2001 | Andersson et al. |
| 6,313,132 B1 | 11/2001 | Johansson et al. |
| 6,517,864 B1 | 2/2003 | Orup Jacobsen et al. |
| 6,566,537 B2 | 5/2003 | Andersson et al. |
| 6,630,162 B1 | 10/2003 | Nilvebrant et al. |
| 6,689,916 B2 | 2/2004 | Andersson et al. |
| 6,713,464 B1 | 3/2004 | Meese et al. |
| 6,770,295 B1 | 8/2004 | Kreilgård et al. |
| 6,783,769 B1 | 8/2004 | Arth et al. |
| 6,809,214 B2 | 10/2004 | Meese |
| 6,809,225 B2 | 10/2004 | Donsbach et al. |

OTHER PUBLICATIONS

Abrams et al., "Tolterodine, a new antimuscarinic agent: as effective but better tolerated than oxybutynin in patients with an overactive bladder," 1998, Br. J. Urol. 81:801-810.

(Continued)

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(74) *Attorney, Agent, or Firm*—Kenyon & Kenyon LLP

(57) **ABSTRACT**

The invention concerns novel derivatives of 3,3-diphenylpropylamines, methods for their preparation, pharmaceutical compositions containing the novel compounds, and the use of the compounds for preparing drugs. More particularly, the invention relates to novel prodrugs of antimuscarinic agents with superior pharmacokinetic properties compared to existing drugs such as oxybutynin and tolterodine, methods for their preparation, pharmaceutical compositions containing them, a method of using said compounds and compositions for the treatment of urinary incontinence, gastrointestinal hyperactivity (irritable bowel syndrome) and other smooth muscle contractile conditions.

FOREIGN PATENT DOCUMENTS

GB	1025041	2/1964
GB	1 169 944	11/1969
GB	1 169 945	11/1969
WO	WO 89/06644	7/1989
WO	WO 93/23025	11/1993
WO	WO 94/11337	5/1994
WO	WO 96/12477	5/1996
WO	WO 98/03067	1/1998
WO	WO 98/43942	10/1998
WO	WO 98/56359	12/1998
WO	WO 99/58478	11/1999
WO	WO 00/12069	3/2000
WO	WO 00/27364	5/2000
WO	WO 01/34139	5/2001
WO	WO 02/11702	2/2002
WO	WO 02/089773	11/2002
WO	WO 03/002059	1/2003
WO	WO 03/007918	1/2003
WO	WO 03/020241	3/2003
WO	WO 03/021271	3/2003
WO	WO 03/026564	4/2003
WO	WO 03/035599	5/2003
WO	WO 03/039464	5/2003
WO	WO 03/063834	8/2003
WO	WO 03/099268	12/2003
WO	WO 03/103637	12/2003
WO	WO 03/106421	12/2003
WO	WO 2004/019892	3/2004

OTHER PUBLICATIONS

Abstracts from the 26th Annual Meeting of the International Incontinence Society, Aug. 27-30, 1996, Gillberg et al., abstract 33, *Neurology and Urodynamics* 15:308-309.

Anderson et al., "Once daily controlled versus immediate release oxybutynin chloride for urge urinary incontinence," 1999, *J. Urol.* 161:1809-1812.

Andersson et al., "Pharmacological treatment of urinary incontinence," in Abrams P., Khoury S., Wein A. (Eds), *Incontinence, 2nd International Consultation on Incontinence*, Plymouth, Plymbridge Distributors Ltd, UK, Plymouth, 2002, pp. 479-511.

Andersson, "Antimuscarinics for treatment of overactive bladder," 2004, *Lancet Neurol.* 3:46-53.

Andersson & Hedlund, "Pharmacological perspective on the physiology of the lower urinary tract," 2002, *Urology* 60(Suppl. 5A):13-20.

Andersson & Wein, "Pharmacology of the lower urinary tract: basis for current and future treatments of urinary incontinence," 2004, *Pharmacol. Rev.* 56:581-631.

Appell et al., "Prospective randomized controlled trial of extended release oxybutynin chloride and tolterodine tartrate in the treatment of overactive bladder: results of the OBJECT study," 2001, *Mayo Clinic Proceedings* 76:358-363.

Breidenbach et al., "Pharmacodynamic profiling of the novel antimuscarinic drug fesoterodine on rat bladder," 2002, *Proceedings of the International Continence Society*, 32:449.

Brynne et al., Influence of CYP2D6 polymorphism on the pharmacokinetics and pharmacodynamics of tolterodine, 1998, *Clin. Pharmacol. Thera.* 63:529-539.

Brynne et al., "Tolterodine does not affect the human in vivo metabolism of the probe drugs caffeine, debrisoquine, and omeprazole," 1999, *Br. J. Clin. Pharmacol.* 47:145-150.

Brynne et al., "Fluoxetine inhibits the metabolism of tolterodine—pharmacokinetic implications and proposed clinical relevance," 1999, *Br. J. Clin. Pharmacol.* 48:553-563.

Brynne et al., "Ketoconazole inhibits the metabolism of tolterodine in subjects with deficient CYP2D6 activity," 1999, *Br. J. Clin. Pharmacol.* 48:564-572.

Cawello et al., "Multiple dose pharmacokinetics of fesoterodine in

Chancellor et al., "A comparison of the effects on saliva output of oxybutynin chloride and tolterodine tartrate," 2001, *Clinical Therapeutics* 23:753-760.

Chapple & Udo, "Delay to maximum effect in overactive bladder patients treated with oxybutynin or tolterodine," 2000, *European Urology* 37(Suppl. 2):84, abstract 335 from the XVth Congress of the European Association of Urology, Brussels, Belgium, Apr. 12-15, 2000.

Chapple et al., "Fesoterodine a new effective and well-tolerated antimuscarinic for the treatment of urgency-frequency syndrome: results of a Phase II controlled study," 2004, *Proceedings of the International Continence Society*, 34:142.

Clemett & Jarvis, "Tolterodine: a review of its use in the treatment of overactive bladder," 2001, *Drugs & Aging* 18:277-304.

Teuvo et al "Extended release tolterodine compared with immediate release tolterodine for the treatment of overactive bladder," 2000, *European Urology* 37(Suppl. 2):84, abstract 334 from the XVth Congress of the European Association of Urology, Brussels, Belgium, Apr. 12-15, 2000.

Van Kerrebroeck et al., "Tolterodine once daily: superior efficacy and tolerability in the treatment of the overactive bladder," 2001, *Urology* 57:414-421.

Van Kerrebroeck et al., "Clinical efficacy and safety of tolterodine compared to oxybutynin in patients with overactive bladder," 1997, *Neurourol. Urodyn.* 16:478-479, abstract No. 91 from the 27th Annual meeting of the International Continence Society, Yokohama, Japan, Sep. 1997.

Versi et al., "Dry mouth with conventional and controlled release oxybutynin in urinary incontinence," 2000, *Obstet. Gynecol.* 95:718-721.

Wefer et al., "Tolterodine: an overview," 2001, *World Journal of Urology* 19, 312-318.

Nilvebrant et al., *European Journal of Pharmacology*, 327(1997) pp. 195-207.

Nilvebrant et al., *Pharmacology and Toxicology*, vol. 81, pp. 169-172, 1997.

Nilvebrant et al., *Life Sciences*, vol. 60 (13/14), pp. 1129-1136, 1997.

Postlind et al., *Drug Metabolism and Disposition*, vol. 26 (4), pp. 289-293, 1998.

Andersson et al., *Drug Metabolism and Disposition*, vol. 26 (6), pp. 528-535, 1998.

Brynne et al., *J. Clin. Pharm. Ther.*, vol. 35 (7), pp. 287-295 1997.

Cole, "Fesoterodine, an advanced antimuscarinic for the treatment of overactive bladder: A safety update," 2004, *Drugs of the Future* 29:715-720.

Committee for Proprietary Medicinal Products, "The assessment of the potential for QT interval prolongation by non-cardiovascular medicinal products," CPMP/986/96, Dec. 17, 1997.

Detrol® package insert, Pharmacia & Upjohn Co., Apr. 2004.

Diokno et al., "Tolterodine (Detrol®) improves incontinence and nocturia in urological based study," Apr. 1999, *J. Urol.* 161 (4 Suppl):256, abstract 987.

Ekstrom et al., "Effects of tolterodine on bladder function in healthy volunteers," *Journal of Urology* 153(Suppl.):394A, abstract 662 from the 19th Annual Meeting of the American Urological Association, Las Vegas, Apr. 23-28, 1995.

Gardner & Altman, "Confidence intervals rather than P values: estimation rather than hypothesis testing," 1986, *Br. Med. J.* 292:746-750.

Gillberg et al., "Tolterodine, a new agent with tissue effect selectivity for urinary bladder," 1994, *Neurourology and Urodynamics* 13:435-436, abstract 60B from International Continence Society 24th Annual Meeting, Prague, Czech Republic, Aug. 1994.

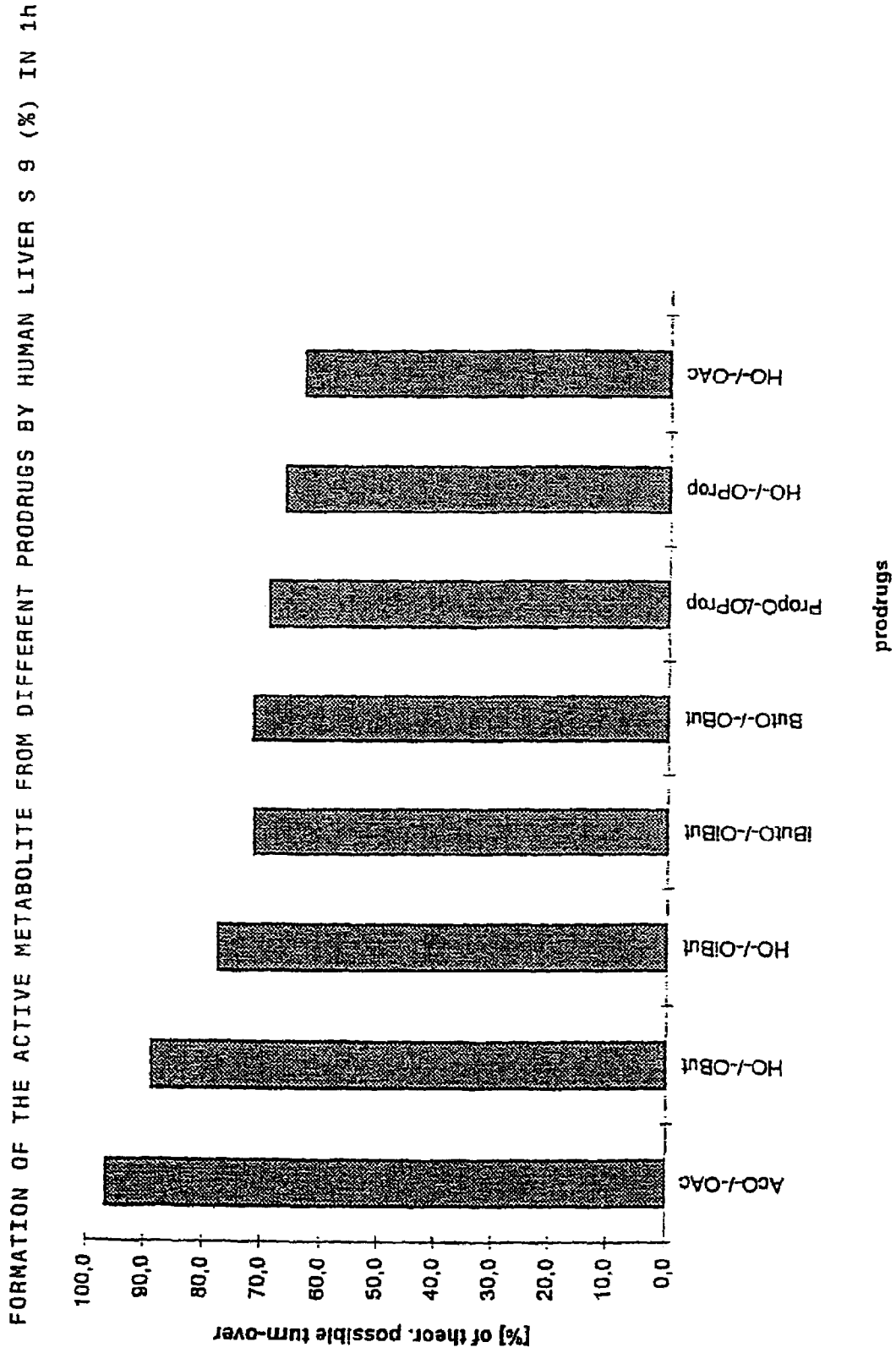
Gillberg et al., "Comparison of the in vitro and in vivo profiles of tolterodine with those of subtype-selective muscarinic receptor antagonists," 1998, *European Journal of Pharmacology* 349: 285-292.

Hills et al., "Tolterodine," 1998, *Drugs* 55:813-820.

Jonas et al., "Efficacy and safety of two doses of tolterodine versus placebo in patients with detrusor overactivity and symptoms of fre-

- Kang et al., "Cardiac ion channel effects of Tolterodine," 2004, *J. Pharmacol. Exper. Thera.* 308:935-940.
- Kershner & Hsieh, "Preview of new drugs for overactive bladder and incontinence: darifenacin, solifenacin, trospium, and duloxetine," *Curr. Urol. Rep.* 5:359-367, 2004.
- Klosa, "Eine Neue Synthesemethode der Darstellung von Diarylalkylaminen," 1966, *Journal für Praktische Chemie* 4:312-334 (in German) with English translation.
- Klosa, "Eine Neue Synthese von Diphenylisopropylaminen," 1966, *Journal für Praktische Chemie* 4:335-340 (in German, with English translation).
- Larsson et al., "Tolterodine in the treatment of overactive bladder: analysis of the pooled phase II safety and efficacy data," 1999, *Urology* 53: 990-998.
- Lipinski, et al., "Experimental and computational approaches to estimate solubility and permeability in drug discovery and development settings" *Elsevier Advanced Drug Delivery Reviews* vol. 23, pp. 3-25, 1997.
- Millard et al., "Clinical efficacy and safety of tolterodine compared to placebo in detrusor overactivity," 1999, *J. Urol.* 161:1551-1555.
- Modiri et al., "Effect of muscarinic antagonists on micturition pressure measured by cystometry in normal, conscious rats," 2002, *Urology* 59:963-968.
- Naerger et al., "Effect of tolterodine on electrically induced contractions of isolated human detrusor muscle from stable and unstable bladders," 1995, *Neurourology and Urodynamics* 14:524-526, abstract 76 from International Continence Society 25th Annual Meeting, Sydney, Australia, Oct. 1995.
- Netzer, et al., "Screening lead compounds for QT interval prolongation" *Drug Discovery Today* vol. 6, No. 2, pp. 78-84, Jan. 2001.
- Nilsson et al., "Comparison of a 10 mg controlled release oxybutynin tablet with a 5 mg oxybutynin tablet in urge incontinence patients," 1997, *NeuroUrol. Urodyn.* 16:533-542.
- Nilvebrant & Sparf, "Receptor binding profiles of some selective muscarinic antagonists," 1988, *European Journal of Pharmacology* 151:83-96.
- Nilvebrant & Sparf, "Differences between Binding Affinities of some Antimuscarinic Drugs in the parotid Gland and those in the Urinary Bladder and Ileum" *Acta Pharmacol. et toxicol.* vol. 53, No. 4, pp. 304-313, Oct. 1983.
- Nilvebrant et al., "The in vitro pharmacological profile of tolterodine—a new agent for the treatment of urinary urge incontinence," 1994, *Neurourology and Urodynamics* 13:433-435, abstract 60A from International Continence Society 24th Annual Meeting, Prague, Czech Republic, Aug. 1994.
- Nilvebrant et al., "Tolterodine is not subtype (ml-m5) selective but exhibits functional bladder selectivity in vivo," 1996, *Neurourology and Urodynamics* 15:310-311, abstract 34 from the 26th Annual Meeting of the International Continence Society, Athens, Greece, Aug. 27-30, 1996.
- Nilvebrant, "Tolterodine and terodiline—different pharmacological profiles," pp. 141-142, abstract 181a, from the 27th Annual meeting of the International Continence Society, Yokohama, Japan, Sep. 1997.
- Nilvebrant et al "Tissue distribution of tolterodine and its metabolites: low penetration into the central nervous system," 2000, *European Urology* 37(Suppl. 2):84, abstract 333 from the XVth Congress of the European Association of Urology, Brussels, Belgium, Apr. 12-15, 2000.
- Nilvebrant, "The mechanism of action of tolterodine," 2000, *Reviews in Contemporary Pharmacotherapy* 11:13-27.
- Olsson et al., "Food increases the bioavailability of tolterodine but not effective exposure," 2001, *J. Clin. Pharmacol.* 41:298-304.
- Olsson & Szamosi, "Food does not influence the pharmacokinetics of a new extended release formulation of tolterodine for once daily treatment of patients with overactive bladder," 2001, *Clinical Pharmacokinetics* 40:135-143.
- Olsson & Szamosi, "Multiple dose pharmacokinetics of a new once daily extended release formulation versus immediate release tolterodine," 2001, *Clinical Pharmacokinetics* 40:227-235.
- Pharmacology/Toxicology Review from Application No. 21-518, Center for Drug Evaluation and Research, pp. 1-3, 2001.
- Rentzhog et al., "Efficacy and safety of tolterodine in patients with detrusor instability: a dose ranging study," 1998, *Br. J. Urol.* 81:42-48.
- Roy, et al., "HERG, a Primary Human Ventricular Target of the Nonsedating Antihistamine Terfenadine" *Circulation* vol. 94, No. 4, pp. 817-823, Aug. 15, 1996.
- Sachse et al., "Pharmacodynamics of multiple dose treatment with the novel antimuscarinic drug fesoterodine," 2002, *Nauyn-Schmiedeberg's Arch. Pharmacol.* 365 (Suppl. 1):413.
- Sachse et al., "Safety and pharmacokinetics of the novel bladder-selective antimuscarinic drug fesoterodine in populations of different age or gender," 2002, *Proceedings of the International Continence Society*, 32:441.
- Sachse et al., "Safety and pharmacokinetics of the novel bladder-selective antimuscarinic fesoterodine in populations of different ethnic origin," 2003, *Proceedings of the International Continence Society*, 33:377.
- Sachse et al., "Dose-proportional pharmacokinetics of the new antimuscarinic fesoterodine," 2003, *Nauyn-Schmiedeberg's Arch. Pharmacol.* 367 (Suppl. 1):446.
- Sachse et al., "Pharmacodynamics and pharmacokinetics of ascending multiple oral doses of the novel, bladder-selective antimuscarinic fesoterodine," 2003, *Eur. Urol. Suppl* 2:111.
- Sachse et al., "Concomitant food intake does not significantly influence the pharmacokinetics of the novel, bladder-selective antimuscarinic fesoterodine," 2004, *Proceedings of the International Continence Society*, 34:580.
- Sachse et al., "Safety, tolerability and pharmacokinetics of fesoterodine in patients with hepatic impairment," 2004, *Proceedings of the International Continence Society*, 34:585.
- Sachse et al., "Safety, tolerability and pharmacokinetics of fesoterodine after co-treatment with the potent cytochrome P450 3A4 inhibitor ketoconazole," 2004, *Proceedings of the International Continence Society*, 34:586.
- Sachse et al., "Clinical pharmacological aspects of the novel bladder-selective antimuscarinic fesoterodine," 2004, *Progrès en Urologie*, 14 (Suppl. 3):58.
- Stahl et al., "Urodynamic and other effects of tolterodine: a novel antimuscarinic drug for the treatment of detrusor overactivity," 1995, *NeuroUrol. Urodyn.* 14:647-55.

FIG. 1



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DERIVATIVES OF 3,3-DIPHENYLPROPYLAMINES

This application is a continuation of U.S. patent application Ser. No. 10/766,263, filed Jan. 27, 2004, now U.S. Pat. No. 7,230,030, which is a continuation of U.S. patent application Ser. No. 09/700,094, filed Jan. 2, 2001, now U.S. Pat. No. 6,713,464, which is a 371 of PCT/EP99/03212, filed May 11, 1999.

The present invention relates to novel derivatives of 3,3-diphenylpropylamines, methods for their preparation, pharmaceutical compositions containing the novel compounds, and the use of the compounds for preparing drugs.

BACKGROUND OF THE INVENTION

In man, normal urinary bladder contractions are mediated mainly through cholinergic muscarinic receptor stimulation. There is reason to believe that muscarinic receptors mediate not only normal bladder contractions, but also the main part of the contractions in the overactive bladder resulting in symptoms such as urinary frequency, urgency and urge incontinence. For this reason, antimuscarinic drugs have been proposed for the treatment of bladder overactivity.

Among the antimuscarinic drugs available on the market, oxybutynin is currently regarded as the gold standard for pharmacological treatment of urge incontinence and other symptoms related to bladder overactivity. The effectiveness of oxybutynin has been demonstrated in several clinical studies, but the clinical usefulness of oxybutynin is limited due to antimuscarinic side effects. Dryness of the mouth is the most common experienced side effect which may be severe enough to result in poor compliance or discontinuation of Treatment (Andersson, K.-E., 1988, Current concepts in the treatment of disorders of micturition, *Drugs* 35, 477-494; Kelleher et al. 1994).

Tolterodine is a new, potent and competitive, muscarinic receptor antagonist intended for the treatment of urinary urge incontinence and detrusor hyperactivity. Preclinical pharmacological data show that tolterodine exhibits a favourable tissue selectivity in vivo for the urinary bladder over the effect on the salivation (Nilvebrant et al., 1997, Tolterodine—a new bladder-selective antimuscarinic agent, *Eur. J. Pharmacol.* 327 (1997), 195-207), whereas oxybutynin exhibits the reversed selectivity. Tolterodine is equipotent to oxybutynin at urinary bladder muscarinic receptors and the favourable tissue selectivity of tolterodine demonstrated in the preclinical studies has been confirmed in clinical studies. Thus a good clinical efficacy has been combined with a very low number of incidences of dry mouth and antimuscarinic side effects.

A major metabolite of tolterodine, the 5-hydroxymethyl derivative is also a potent muscarinic receptor antagonist and the pharmacological in vitro and in vivo profiles of this metabolite are almost identical to those of tolterodine (Nilvebrant et al., 1997, *Eur. J. Pharmacol.* 327 (1997), 195-207). Combined pharmacological and pharmacokinetic data indicate that it is most likely that the metabolite gives a major contribution to the clinical effect in most patients.

WO 94/11337 proposes the active metabolite of tolterodine as a new drug for urge incontinence. Administration of the active metabolite directly to patients has the advantage compared to tolterodine that only one active principle (compound) has to be handled by the patient which normally should result in a lower variation in efficacy and side effects between patients and lower risk of interaction with other drugs.

However, the introduction of an additional hydroxy group in the tolterodine results in an increased hydrophilic property

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lower absorption/bioavailability, leading to pre-systemic side effects or interactions due to non-absorbed antimuscarinic drug. In a method to circumvent this disadvantage, different prodrugs of the metabolite have been synthesized and tested for their antimuscarinic activity, potential absorption through biological membranes and enzymatic cleavage.

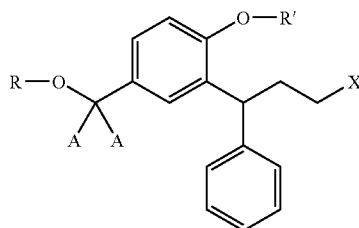
BRIEF SUMMARY OF THE INVENTION

It is an object of the present invention to provide novel derivatives of 3,3-diphenylpropylamines. It is a further object of the present invention to provide new derivatives of 3,3-diphenylpropylamines which will be more useful as prodrugs for treatment of urinary incontinence and other spasmodic conditions that are caused by muscarinic mechanisms while avoiding the disadvantage of a too low absorption through biological membranes of the drugs or an unfavourable metabolism.

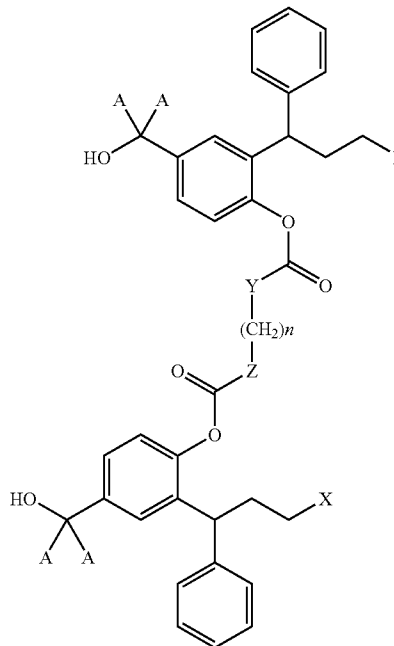
A further object of the invention is to provide novel prodrugs of antimuscarinic agents with superior pharmacokinetic properties compared to present drugs as oxybutynin and tolterodine, methods for preparing thereof, pharmaceutical compositions containing them, a method of using said compounds and compositions for the treatment of urinary incontinence, gastrointestinal hyperactivity (irritable bowel syndrome) and other smooth muscle contractile conditions.

According to the present invention, novel 3,3-diphenylpropylamines are provided, which are represented by the general formulae I and VII'

Formula I



Formula VII'



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