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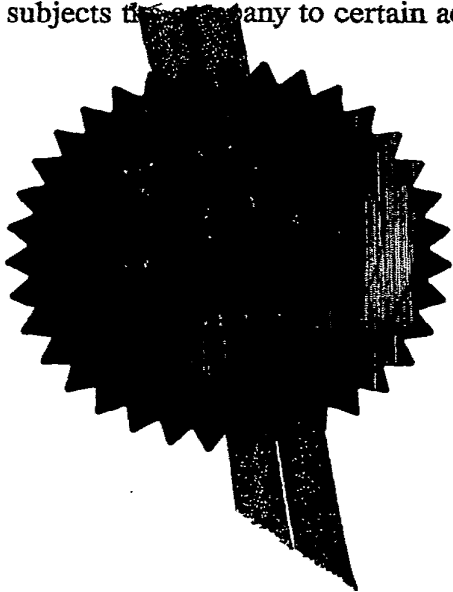
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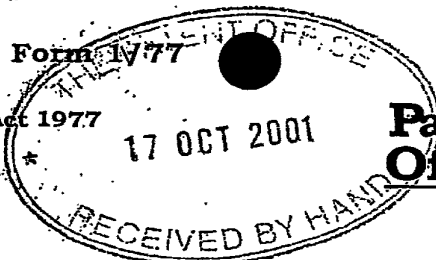
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1/77

Request for grant of a patent

(See the notes on the back of this form. You can also get an explanatory leaflet from the Patent Office to help you fill in this form)

The Patent Office

Cardiff Road
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1.	Your reference	4-31671P3		
2.	Patent application number <i>(The Patent Office will fill in this part)</i>	0124957.2		177 OCT 2001
3.	Full name, address and postcode of the or of each applicant <i>(underline all surnames)</i>	NOVARTIS AG LICHTSTRASSE 35 4056 BASEL SWITZERLAND		
	Patent ADP number <i>(if you know it)</i>			
	If the applicant is a corporate body, give the country/state of its incorporation	SWITZERLAND		712 3484005
4.	Title of invention	Organic Compounds		
5.	Name of your agent <i>(if you have one)</i>	B.A. YORKE & CO. CHARTERED PATENT AGENTS COOMB HOUSE, 7 ST. JOHN'S ROAD ISLEWORTH MIDDLESEX TW7 6NH		
	"Address for service" in the United Kingdom to which all correspondence should be sent <i>(including the postcode)</i>			
	Patents ADP number <i>(if you know it)</i>	1800001		
6.	If you are declaring priority from one or more earlier patent applications, give the country and the date of filing of the or of each of these earlier applications and <i>(if you know it)</i> the or each application number	Country	Priority application number <i>(if you know it)</i>	Date of filing (day/month/year)
7.	If this application is divided or otherwise derived from an earlier UK application, give the number and the filing date of the earlier application	Number of earlier application		Date of filing (day/month/year)
8.	Is a statement of inventorship and of right to grant of a patent required in support of this request? <i>(Answer 'Yes' if:</i>	Yes		
	a) any applicant named in part 3 is not an inventor, or			
	b) there is an inventor who is not named as an applicant, or			
	c) any named applicant is a corporate body.			
	<i>(see note (d))</i>			

Patents Form 1/77

9. Enter the number of sheets for any of the following items you are filing with this form. Do not count copies of the same document

Continuation sheets of this form

Description 22

Claim(s) 2

Abstract

Drawing(s)

10. If you are also filing any of the following, state how many against each item.

Priority documents

Translations of priority documents

Statement of inventorship and right to grant of a patent (Patents Form 7/77)

Request for preliminary examination and search (Patents Form 9/77)

Request for substantive examination (Patents Form 10/77)

Any other documents (please specify)

11. I/We request the grant of a patent on the basis of this application

Signature

Date

B.A. Yorke & Co

B.A. Yorke & Co.

17 October 2001

12. Name and daytime telephone number of person to contact in the United Kingdom Mrs. E. Cheetham 020 8560 5847

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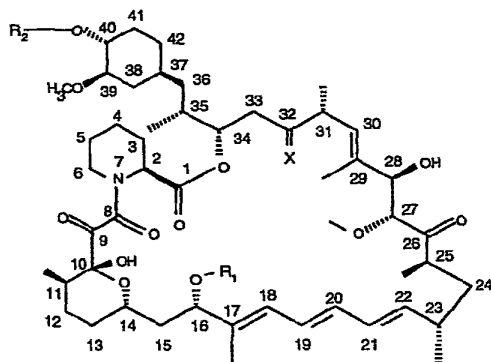
Notes

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Organic Compounds

The present invention relates to a new use, in particular a new use for a compound group comprising derivatives of rapamycin.

Suitable derivatives of rapamycin include e.g. compounds of formula I



wherein

R₁ is CH₃ or C₃₋₆alkynyl,

R₂ is H or -CH₂-CH₂-OH,

X is =O or (H,OH)

provided that R₂ is -CH₂-CH₂-OH when R₁ is CH₃ and X is =O.

Most of the compounds of formula I are either generically or specifically disclosed in WO 94/09010, WO 95/16691 or WO 96/41807, which are incorporated herein by reference, the compound of formula I wherein X is =O, R₁ is 2-pentynyl and R₂ is -CH₂-CH₂-OH being novel and forming part of the invention.

A preferred compound is 40-O-(2-hydroxyethyl)-rapamycin (referred thereafter as Compound A), disclosed as Example 8 in WO 94/09010.

Certain compounds of formula I have, on the basis of observed activity, e.g. binding to macrophilin-12 (also known as FK-506 binding protein or FKBP-12), e.g. as described in WO 94/09010, WO 95/16691 or WO 96/41807, been found to be useful e.g. as immunosuppressant, e.g. in the treatment of acute allograft rejection. It has now been found that Compounds of formula I have potent antiproliferative properties which make them

useful for cancer chemotherapy, particularly of solid tumors, especially of advanced solid tumors. There is still the need to expand the armamentarium of cancer treatment of solid tumors, especially in cases where treatment with anticancer compounds is not associated with disease regression or stabilization.

In accordance with the particular findings of the present invention, there is provided:

- 1.1 A method for treating solid tumors in a subject in need thereof, comprising administering to said subject a therapeutically effective amount of a compound of formula I.
- 1.2 A method for inhibiting growth of solid tumors in a subject in need thereof, comprising administering to said subject a therapeutically effective amount of a compound of formula I.
- 1.3 A method for inducing tumor regression, e.g. tumor mass reduction, in a subject in need thereof, comprising administering to said subject a therapeutically effective amount of a compound of formula I.
- 1.4 A method for treating solid tumor invasiveness or symptoms associated with such tumor growth in a subject in need thereof, comprising administering to said subject a therapeutically effective amount of a compound of formula I.
- 1.5 A method for preventing metastatic spread of tumours or for preventing or inhibiting growth of micrometastasis in a subject in need thereof, comprising administering to said subject a therapeutically effective amount of a compound of formula I.
- 1.6 A method for the treatment of a disease associated with deregulated angiogenesis in a subject in need thereof, comprising administering to said subject a therapeutically effective amount of a compound of formula I.
- 1.7 A method for inhibiting or controlling deregulated angiogenesis in a subject in need thereof, comprising administering to said subject a therapeutically effective amount of a compound of formula I.
- 1.8 A method for enhancing the activity of an anticancer agent or for overcoming resistance to an anticancer agent in a subject in need thereof, comprising administering to said subject a therapeutically effective amount of a compound of formula I either concomitantly or sequentially with said anticancer agent.
- 1.9 A method according to 1.8 wherein the anticancer agent is an inhibitor of signal transduction pathways directed either against host cells or processes involved in tumor

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