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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: FAB I INHIBITORS

(57) Abstract: Compounds are disclosed which are Fab I inhibitors and are useful in the treatment of bacterial infections.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US02/10332

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : A61K 31/4439, 31/4436, 31/443, 31/437, 31/44; C07D 401/12, 405/12, 409/12, 471/04, 213/72		
US CL : 514/300, 338, 339, 352 ; 546/113, 277.4, 280.4, 284.1, 312		
According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols) U.S.: 514/300, 338, 339, 352; 546/113, 277.4, 280.4, 284.1, 312		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) STN STRUCTURE SEARCH, FILE CAPLUS		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category * Citation of document, with indication, where		
X,P WO 01/27103 A1 (SMITHKLINE BEECHAM CO (19.04.2001), claims 1-5, 7, 9-11, 13-16.	ORPORATION) 19 April 2001 1, 2, 4-8	
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Further documents are listed in the continuation of Box C.	See patent family annex.	
* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to	
"A" document defining the general state of the art which is not considered to be of particular relevance	understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be	
"E" earlier application or patent published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone	
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art	
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family	
"P" document published prior to the international filing date but later than the priority date claimed.		
Date of the actual completion of the international search	Date of mailing of the international search report	
19 November 2004 (19.11.2004)	Automotors of the Court	
Name and mailing address of the ISA/US Mail Stop PCT, Atm: ISA/US Commissioner for Patents	Authorized officer Cecilia Tsang Cecilia Tsang	
P.O. Box 1450 Alexandria, Virginia 22313-1450	Telephone No. (703)308-1235	
Facsimile No. (703) 305-3230	/)	

Form PCT/ISA/210 (second sheet) (July 1998)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US02/10332

Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)		
This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:		
1. Claim Nos.: because they relate to subject matter not required to be searched by this Authority, namely:		
2. Claim Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically: were not searched because they are improperly multiple dependent as covered by the second and third sentences of PCT rule 6.4(a).		
3. Claim Nos.: 9 and 10 because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).		
Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)		
This International Searching Authority found multiple inventions in this international application, as follows: Please See Continuation Sheet		
 As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.: 		
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: In Part 1, 2, 4-8		
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.		

INTERNATIONAL SEARCH REPORT	PCT/US02/10332	
BOX II. OBSERVATIONS WHERE UNITY OF INVENTION IS I This application contains claims directed to more than one species of the gene invention because they are not so linked as to form a single general inventive	eric invention. These species are deemed to lack unity of	
In order for more than one species to be examined, the appropriate additional follows:	examination fees must be paid. The species are as	
I. Compounds of formulae (I) or (II) where R3 represents monocyclic 6-meml pharmaceutical compositions containing these compounds and a method of usi	bered ring containing only one N atom as heteroatom, ing these compounds.	
II. Compounds of formulae (I) or (II) where R3 represents bicyclic ring containing 2-3 N atoms as heteroatoms, pharmaceutical compositions containing these compounds and a method of using these compounds.		
III. Compounds of formula (II) where R3 represents monocyclic 6-membered aryl ring, pharmaceutical compositions containing these compounds and a method of using these compounds.		
IV. Compounds of formula (II) where R3 represents monocyclic 6-membered pharmaceutical compositions containing these compounds and a method of usi	ring containing two N atoms as heteroatoms, ing these compounds.	
V. Compounds of formula (III), pharmaceutical compositions containing these	e compounds and a method of using these compounds.	
The claims are deemed to correspond to the species listed above in the following manner:		
Species I, II: Claims 1 and 2		
Species III : Claim 2		
Species V : Claim 3		
The following claim(s) are generic: 4-8.		
The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons:		
There is no common core which in the Markush Practice, is a significant structure Administrative Instructions Annex B Part I (f) (i) (B) (1).	ctural element shared by all of the alternatives; see PCT	