



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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<p>(21) International Application Number: PCT/EP98/00380</p> <p>(22) International Filing Date: 13 January 1998 (13.01.98)</p> <p>(30) Priority Data: 9700899.9 17 January 1997 (17.01.97) GB</p> <p>(71) Applicant (for all designated States except US): SMITHKLINE BEECHAM PLC [GB/GB]; New Horizons Court, Brentford, Middlesex TW8 9EP (GB).</p> <p>(72) Inventor; and (75) Inventor/Applicant (for US only): KENNETT, Guy, Anthony [GB/GB]; SmithKline Beecham Pharmaceuticals, New Frontiers Science Park South, Third Avenue, Harlow, Essex CM19 5AW (GB).</p> <p>(74) Agent: WATERS, David, Martin; SmithKline Beecham plc, Corporate Intellectual Property, Two New Horizons Court, Brentford, Middlesex TW8 9EP (GB).</p>	<p>(81) Designated States: CA, JP, US, European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).</p> <p>Published <i>With international search report.</i></p> <p>(88) Date of publication of the international search report: 17 September 1998 (17.09.98)</p>	
<p>(54) Title: USE OF 5-HT_{2B} AGONISTS OR POTENTIATORS IN CNS DISORDERS</p>		
<p>(57) Abstract</p> <p>The present invention discloses the use of 5-HT_{2B} agonists or positive allosteric modulators (enhancers) such as paroxetine or BW-723C86 in the treatment of various CNS, affective, behavioral, migraine or feeding disorders, and in particular in depression.</p>		

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP 98/00380

A. CLASSIFICATION OF SUBJECT MATTER
IPC 6 A61K31/00 A61K31/40 A61K31/445

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)
IPC 6 A61K

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 practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	KENNETT ET AL: "Effects o the 5-HT2B receptor agonist, BW 723C86, on three rat models of anxiety" BR. J. PHARMACOL., vol. 117, no. 7, April 1996, pages 1443-1448, XP002069364 cited in the application see the whole document	1,2,5
X	KENNETT GA ET AL: "Effect of chronic administration of selective 5-hydroxytryptamine and noradrenaline uptake inhibitors on a putative index of 5-HT2C/#2B# #receptor# function." NEUROPHARMACOLOGY, DEC 1994, 33 (12) P1581-8, ENGLAND, XP002069365 see the whole document	1-4
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Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

° Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
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- "O" document referring to an oral disclosure, use, exhibition or other means
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- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "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
- "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.
- "&" document member of the same patent family

Date of the actual completion of the international search <p style="text-align: center;">25 June 1998</p>	Date of mailing of the international search report <p style="text-align: center;">15. 07. 1998</p>
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Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer <p style="text-align: center;">Gac, G</p>
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INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP 98/00380

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 94 25012 A (SMITHKLINE BEECHAM PLC) 10 November 1994 see the whole document ---	1,2
A	KENNETT G A ET AL: "Does chronic administration of paroxetine or the 5-HT-2B receptor agonist, #BW# #723C86#, affect rat 5-HT-2B receptor function?" SOCIETY FOR NEUROSCIENCE ABSTRACTS, 22 (1-3). 1996. 1778., XP002069366 see abstract nr 699.14 ---	1-5
A	WO 96 29074 A (ELI LILLY AND COMPANY) 26 September 1996 see page 15, line 15 - line 34 see page 18, line 2 - line 11 ---	1-4
A	AINSWORTH K ET AL: "Is #BW# #723C86#-induced hyperphagia an in vivo model of rat central 5-HT-2B receptor function?" BRITISH JOURNAL OF PHARMACOLOGY, 117 (PROC. SUPPL.). 1996. 178P., XP002069367 see abstract 178P ---	1,2,5
P,X	DUXON ET AL.: "Activation of 5HT-2B receptors in the medial amygdala causes anxiolysis in the social interaction test in the rat" NEUROPHARMACOLOGY, vol. 36, no. 4-5, April 1997 - May 1997, pages 601-608, XP002069368 cited in the application see the whole document -----	1,2,5

INTERNATIONAL SEARCH REPORT

International application No.
PCT/EP 98/00380

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

Although claims 1-5 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. Claims 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:
3. Claims Nos.:
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:

1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. 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.:

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

Information on patent family members

Inter. Appl. Application No
PCT/EP 98/00380

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9425012 A	10-11-1994	AU 6569794 A ZA 9402809 A	21-11-1994 23-10-1995
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WO 9629074 A	26-09-1996	AU 5528996 A	08-10-1996
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