



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : A61K 31/00	A3	(11) International Publication Number: WO 97/29739 (43) International Publication Date: 21 August 1997 (21.08.97)
(21) International Application Number: PCT/EP97/00586 (22) International Filing Date: 7 February 1997 (07.02.97) (30) Priority Data: 96200380.2 15 February 1996 (15.02.96) EP <i>(34) Countries for which the regional or international application was filed:</i> DE et al. (71) Applicant (for all designated States except US): JANSSEN PHARMACEUTICA N.V. [BE/BE]; Turnhoutseweg 30, B-2340 Beerse (BE). (72) Inventors; and (75) Inventors/Applicants (for US only): MEULEMANS, Ann, Louise, Gabriëlle [BE/BE]; Janssen Pharmaceutica N.V., Turnhoutseweg 30, B-2340 Beerse (BE). BOSMANS, Jean-Paul, René, Marie, André [BE/BE]; Janssen Pharmaceutica N.V., Turnhoutseweg 30, B-2340 Beerse (BE).		(81) Designated States: AL, AM, AU, BA, BB, BG, BR, CA, CN, CU, CZ, EE, GE, HU, IL, IS, JP, KG, KR, LC, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, TR, TT, UA, US, UZ, VN, ARIPO patent (KE, LS, MW, SD, SZ, UG), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> (88) Date of publication of the international search report: 28 October 1999 (28.10.99)
(54) Title: USE OF 5HT4 RECEPTOR ANTAGONISTS FOR OVERCOMING GASTROINTESTINAL EFFECTS OF SEROTONIN REUPTAKE INHIBITORS (57) Abstract <p>The present invention concerns the use of receptor antagonists of the 5HT4 receptor for avoiding, alleviating, suppressing or overcoming the gastrointestinal side-effects of serotonin reuptake inhibitors. The present invention also concerns pharmaceutical formulations comprising 5HT4 receptor antagonists for alleviating, suppressing or overcoming the gastrointestinal side-effects of serotonin reuptake inhibitors, as well as pharmaceutical compositions comprising 5HT4 receptor antagonists and serotonin reuptake inhibitors.</p>		

FOR THE PURPOSES OF INFORMATION ONLY

Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

AM	Armenia	GB	United Kingdom	MW	Malawi
AT	Austria	GE	Georgia	MX	Mexico
AU	Australia	GN	Guinea	NE	Niger
BB	Barbados	GR	Greece	NL	Netherlands
BE	Belgium	HU	Hungary	NO	Norway
BF	Burkina Faso	IE	Ireland	NZ	New Zealand
BG	Bulgaria	IT	Italy	PL	Poland
BJ	Benin	JP	Japan	PT	Portugal
BR	Brazil	KE	Kenya	RO	Romania
BY	Belarus	KG	Kyrgystan	RU	Russian Federation
CA	Canada	KP	Democratic People's Republic of Korea	SD	Sudan
CF	Central African Republic	KR	Republic of Korea	SE	Sweden
CG	Congo	KZ	Kazakhstan	SG	Singapore
CH	Switzerland	LI	Liechtenstein	SI	Slovenia
CI	Côte d'Ivoire	LK	Sri Lanka	SK	Slovakia
CM	Cameroon	LR	Liberia	SN	Senegal
CN	China	LT	Lithuania	SZ	Swaziland
CS	Czechoslovakia	LU	Luxembourg	TD	Chad
CZ	Czech Republic	LV	Latvia	TG	Togo
DE	Germany	MC	Monaco	TJ	Tajikistan
DK	Denmark	MD	Republic of Moldova	TT	Trinidad and Tobago
EE	Estonia	MG	Madagascar	UA	Ukraine
ES	Spain	ML	Mali	UG	Uganda
FI	Finland	MN	Mongolia	US	United States of America
FR	France	MR	Mauritania	UZ	Uzbekistan
GA	Gabon			VN	Viet Nam

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP 97/00586

A. CLASSIFICATION OF SUBJECT MATTER
IPC 6 A61K31/00

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	WO 94 00113 A (SMITHKLINE BEECHAM PLC ET AL.) 6 January 1994 see page 1, line 20 - line 23 see page 2, line 10 - line 18 see page 2, line 30 - line 31 ---	1,2,6
X	WO 95 04737 A (SMITHKLINE BEECHAM PLC ET AL.) 16 February 1995 see page 10, line 8 - line 17 see claims 1,13,14 ---	1,6
X	WO 94 27987 A (SMITHKLINE BEECHAM PLC ET AL.) 8 December 1994 see claims 1,10,11 ---	1,6
X	WO 94 08998 A (SMITHKLINE BEECHAM PLC ET AL.) 28 April 1994 see claims 1,13,14 ---	1,6
	-/--	

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
- "E" earlier document but published on or after the international filing date
- "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)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "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

31 July 1997

Date of mailing of the international search report

14.08.97

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

Alvarez Alvarez, C

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP 97/00586

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 92 00103 A (BEECHAM GROUP PLC ET AL.) 9 January 1992 see claims 1,6,7	7,8,10, 11
A	--- CHEMICAL ABSTRACTS, vol. 122, no. 15, 10 April 1995 Columbus, Ohio, US; abstract no. 178309, A. LUCCHELLI ET AL.: "The interaction of antidepressant drugs with central and peripheral enteric 5-HT3 and 5-HT4 receptors" XP002036557 see abstract & BR. J. PHARMACOL., vol. 114, no. 5, 1995, pages 1017-1025, -----	

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 97/00586

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9400113 A	06-01-94	AU 4350493 A	24-01-94
		JP 7508276 T	14-09-95
		AU 668102 B	26-04-96
		AU 2541892 A	05-04-93
		AU 4081393 A	30-12-93
		AU 6073596 A	03-10-96
		BR 9206599 A	08-11-94
		CA 2118812 A	18-03-93
		CZ 9400560 A	13-07-94
		EP 0604494 A	06-07-94
		EP 0641198 A	08-03-95
		FI 941178 A	11-03-94
		WO 9305038 A	18-03-93
		WO 9324117 A	09-12-93
		HU 70154 A	28-09-95
		JP 7507290 T	10-08-95
		JP 6510537 T	24-11-94
		NO 940874 A	11-03-94
		NZ 244282 A	28-08-95
		SK 30294 A	07-12-94
US 5580885 A	03-12-96		

WO 9504737 A	16-02-95	AU 7609894 A	28-02-95
		CA 2168750 A	16-02-95
		CN 1131949 A	25-09-96
		EP 0712406 A	22-05-96
		JP 9502168 T	04-03-97
		NZ 271972 A	27-07-97
		ZA 9405773 A	05-02-96

WO 9427987 A	08-12-94	AU 6928394 A	20-12-94
		CA 2163372 A	08-12-94
		CN 1126472 A	10-07-96
		EP 0699194 A	06-03-96
		JP 8510266 T	29-10-96
		ZA 9403493 A	20-11-95

WO 9408998 A	28-04-94	AU 5177093 A	09-05-94
		CA 2146928 A	28-04-94
		CN 1092775 A	28-09-94

INTERNATIONAL SEARCH REPORT

information on patent family members

International Application No

PCT/EP 97/00586

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9408998 A		EP 0664808 A JP 8502274 T ZA 9307505 A	02-08-95 12-03-96 22-07-94
-----		-----	-----
WO 9200103 A	09-01-92	AU 8072691 A	23-01-92
-----		-----	-----