

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
18 April 2002 (18.04.2002)

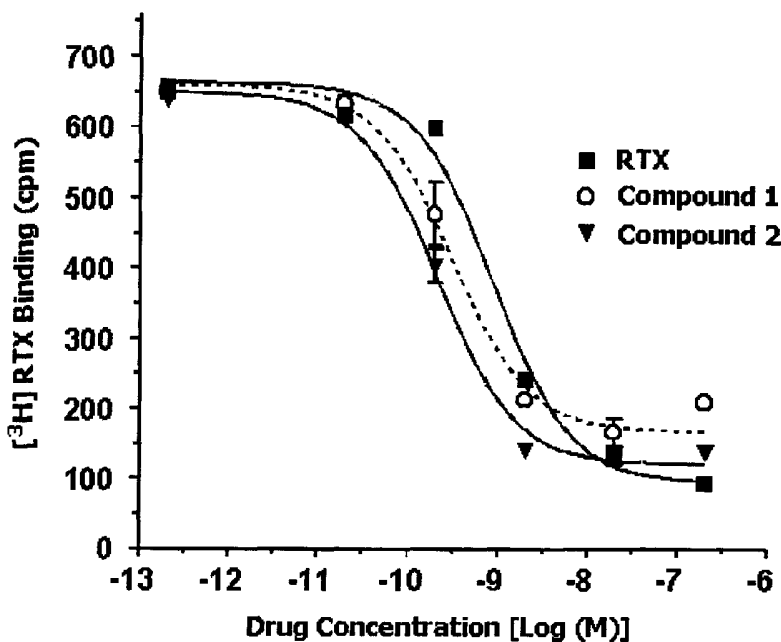
PCT

(10) International Publication Number
WO 02/030937 A3

- (51) International Patent Classification⁷: C07D 493/18, G01N 33/534
- (21) International Application Number: PCT/US01/42548
- (22) International Filing Date: 9 October 2001 (09.10.2001)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 60/239,627 10 October 2000 (10.10.2000) US
- (71) Applicant: ORTHO-MCNEIL PHARMACEUTICAL, INC. [US/US]; U.S. Route #202, P.O. Box 300, Raritan, NJ 08869-0602 (US).
- (72) Inventors: MCDONNELL, Mark, E.; 1280 Sumneytown Pike, Lansdale, PA 19446 (US). WEANER, Larry, E.; 36 West Broad Street, Palmyra, NJ 08065-0222 (US). ZHANG, Sui-Po; 535 Ott Road, Bala Cynwyd, PA 19004 (US).
- (74) Agents: JOHNSON, Philip, S. et al.; Johnson & Johnson, One Johnson & Johnson Plaza, New Brunswick, NJ 08933 (US).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published: — with international search report

[Continued on next page]

(54) Title: LABELED RESINIFERATOXIN DERIVATIVES FOR USE IN VANILLOID RECEPTOR BINDING ASSAY



(57) Abstract: This invention relates to resiniferatoxin derivatives useful in a vanilloid receptor binding assay and methods for production thereof.



WO 02/030937 A3



(88) Date of publication of the international search report:
6 February 2003

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.

INTERNATIONAL SEARCH REPORT

In International Application No
PCT/US 01/42548

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C07D493/18 G01N33/534		
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 7 C07D G01N		
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) EPO-Internal, BEILSTEIN Data, CHEM ABS Data		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 232 684 A (SZALLASI ARPAD ET AL) 3 August 1993 (1993-08-03) cited in the application column 4, line 61 - line 3 example 4 ---	8-19
A	WALPOLE ET AL.: "Similarities and Differences in the SAR's of Capsaicin and Resiniferatoxin Analogues" J. MED. CHEM., vol. 39, 1996, pages 2939-52, XP002208173 Scheme 4, 5th transformation (coupling with DCCI and DMAP) --- -/--	1,5,18
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> 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 2002		Date of mailing of the international search report 13/08/2002
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 Diedereren, J

INTERNATIONAL SEARCH REPORT

In International Application No
PCT/US 01/42548

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	ANDIL ET AL.: "A Practical and Cost-Effective Synthesis of 6,7-Dimethoxy-2-tetralone" SYNTHESIS, vol. 12, 1999, pages 2033-5, XP002208174 Scheme, transformation of 2 -> 3 -----	1,5

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 01/42548

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5232684	A	03-08-1993	NONE