

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
8 December 2005 (08.12.2005)

PCT

(10) International Publication Number
WO 2005/115461 A3

(51) International Patent Classification:

C12N 9/20 (2006.01) A61K 45/00 (2006.01)

C12Q 1/44 (2006.01) A61P 43/00 (2006.01)

C07K 16/40 (2006.01)

(21) International Application Number:

PCT/EP2005/005710

(22) International Filing Date: 27 May 2005 (27.05.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

A 924/2004 27 May 2004 (27.05.2004) AT

(71) Applicant (for all designated States except US): **KARL-FRANZENS-UNIVERSITÄT GRAZ**; Universitätsplatz 3, A-8010 Graz (AT).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **ZECHNER, Rudolf** [AT/AT]; Salfeldstrasse 73, A-8054 Graz (AT). **ZIMMERMANN, Robert** [AT/AT]; Fischergasse 23b, A-8010 Graz (AT). **STRAUSS, Juliane, G.** [AT/AT]; Ruckerlberggürtel 12/10, A-8010 Graz (AT). **HÄMMERLE, Günter** [AT/AT]; Waltendorfer Hauptstrasse 32, A-8010 Graz (AT). **LASS, Achim** [AT/AT]; Moserhofgasse 54/45, A-8010 Graz (AT).(74) Agents: **SCHWARZ, Albin** et al.; Wipplingerstrasse 32/22, A-1010 Wien (AT).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

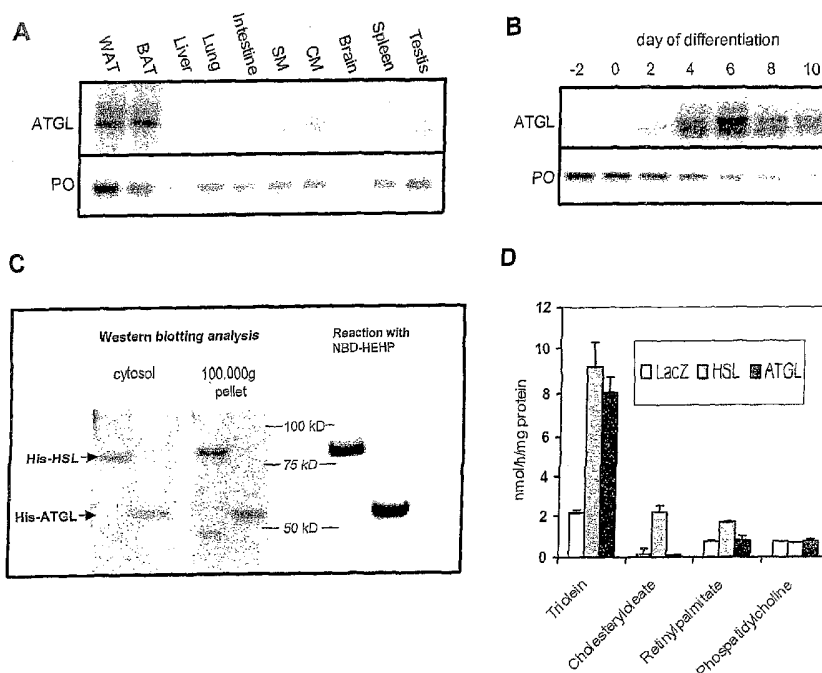
— with international search report

(88) Date of publication of the international search report:

4 May 2006

[Continued on next page]

(54) Title: PHARMACEUTICAL COMPOSITION FOR MODULATING THE ACTIVITY OF TRIGLYCERIDE HYDROLASE



(57) Abstract: Use of an inhibitor or activator of the triglyceride hydrolyse activity of a protein comprising a polypeptide strand encoded by the DNA sequence according to SEQ No. 1 for the preparation of a pharmaceutical composition for the treatment of medical disorders where it is desirable to modulate the activity of a protein encoded by the DNA sequence according to SEQ No. 1.



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

International Application No
PCT/EP2005/005710

A. CLASSIFICATION OF SUBJECT MATTER C12N9/20 C12Q1/44 C07K16/40 A61K45/00 A61P43/00		
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) C12N C12Q C07K A61K A61P		
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, WPI Data, PAJ, BIOSIS, EMBASE, EMBL		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE EMBL 'Online! Sequence 9 from patent WO0107628 21 February 2001 (2001-02-21), TANG Y.T. ET AL.: "HUMAN SYNTHETASES" XP002361870 retrieved from EBI Database accession no. AX077778 the whole document & WO 01/07628 A (INCYTE GENOMICS, INC; TANG, Y., TOM; HILLMAN, JENNIFER, L; BANDMAN, OL) 1 February 2001 (2001-02-01) claims, page 34, line 35 - page 36, line 17; sequence 9 ----- -/--	1,5,6
☒ 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. *8* document member of the same patent family		
Date of the actual completion of the international search 9 January 2006		Date of mailing of the international search report 20/01/2006
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 Böhmerova, E

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2005/005710

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	DATABASE EMBL 'Online! Sequence 3 from patent W02005014645 3 March 2005 (2005-03-03), BECERRA P.S. ET AL.: "Pedr-r receptor and uses" XP002361871 retrieved from EBI Database accession no. CS028979 the whole document & WO 2005/014645 A (THE GOVERNMENT OF THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE S) 17 February 2005 (2005-02-17) claims, sequence 3 -----	5,6
P,X	ZIMMERMANN ROBERT ET AL: "Fat mobilization in adipose tissue is promoted by adipose triglyceride lipase" SCIENCE (WASHINGTON D C), vol. 306, no. 5700, 19 November 2004 (2004-11-19), pages 1383-1386, XP002359734 ISSN: 0036-8075 the whole document -----	1,5,6
P,X	VILLENA JOSEP A ET AL: "Desnutrin, an adipocyte gene encoding a novel patatin domain-containing protein, is induced by fasting and glucocorticoids - Ectopic expression of desnutrin increases triglyceride hydrolysis" JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 279, no. 45, 5 November 2004 (2004-11-05), pages 47066-47075, XP002359735 ISSN: 0021-9258 the whole document -----	1,5
P,X	RABEN D M ET AL: "A new lipase in regulating lipid mobilization: hormone-sensitive lipase is not alone" TRENDS IN ENDOCRINOLOGY AND METABOLISM, ELSEVIER SCIENCE PUBLISHING, NEW YORK, NY, US, vol. 16, no. 2, March 2005 (2005-03), pages 35-36, XP004768091 ISSN: 1043-2760 the whole document -----	1,5

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2005/005710

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0107628	A	01-02-2001	AU 6364700 A	13-02-2001
			CA 2380317 A1	01-02-2001
			EP 1200596 A2	02-05-2002
			JP 2003533967 T	18-11-2003
WO 2005014645	A	17-02-2005	NONE	