

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
24 January 2008 (24.01.2008)

PCT

(10) International Publication Number
WO 2008/009895 A3

(51) International Patent Classification:
C12N 9/64 (2006.01) *C12N 15/52* (2006.01)

(21) International Application Number:
PCT/GB2007/002598

(22) International Filing Date: 12 July 2007 (12.07.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0614201.2 18 July 2006 (18.07.2006) GB

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, 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, LV, MC, MT, 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
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- with sequence listing part of description published separately in electronic form and available upon request from the International Bureau

(88) Date of publication of the international search report:
10 April 2008

(54) Title: MATRIPTASE-2

(57) Abstract: The invention relates to the role of matriptase-2 in treating prostate cancer.



WO 2008/009895 A3

INTERNATIONAL SEARCH REPORT

International application No

PCT/GB2007/002598

A. CLASSIFICATION OF SUBJECT MATTER
 INV. C12N9/64 C12N15/52

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

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, BIOSIS, Sequence Search, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>SANDERS AJ: "Alterations in the expression levels of matriptase-1 & 2 affect the invasive potential of prostate cancer cells"</p> <p>24 February 2006 (2006-02-24), , 2006 PROSTATE CANCER MEETING , XP002465360</p> <p>Retrieved from the Internet: URL: http://www.asco.org/portal/site/ASCO/menuitem.34d60f5624ba07fd506fe310ee37a01d/?abstractID=20264&confID=42&index=y&vmview=abst_detail_view see the whole abstract</p> <p style="text-align: center;">-/--</p>	1-15

☒ Further documents are listed in the continuation of Box C.

☒ See patent family 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

30 January 2008

Date of mailing of the international search report

11/02/2008

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INTERNATIONAL SEARCH REPORT

International application No

PCT/GB2007/002598

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>VELASCO GLORIA ET AL: "MATRIPTASE-2, A MEMBRANE-BOUND MOSAIC SERINE PROTEINASE PREDOMINANTLY EXPRESSED IN HUMAN LIVER AND SHOWING DEGRADING ACTIVITY AGAINST EXTRACELLULAR MATRIX PROTEINS" JOURNAL OF BIOLOGICAL CHEMISTRY, AMERICAN SOCIETY OF BIOCHEMICAL BIOLOGISTS, BIRMINGHAM,, US, vol. 277, no. 40, 4 October 2002 (2002-10-04), pages 37637-37646, XP009078645 ISSN: 0021-9258 see the whole document</p>	1-3,7-11
X	<p>WILSON SUSAN ET AL: "The membrane-anchored serine protease, TMPRSS2, activates PAR-2 in prostate cancer cells" BIOCHEMICAL JOURNAL, vol. 388, no. Part 3, June 2005 (2005-06), pages 967-972, XP002464746 ISSN: 0264-6021 see the whole document</p>	1-3,7-11
X	<p>WO 01/57194 A (CORVAS INT INC [US]; MADISON EDWIN L [US]; ONG EDGAR O [US]; YE H JIUNN) 9 August 2001 (2001-08-09) see the whole document</p>	1-3,7-11
X	<p>HOOPER JOHN D ET AL: "MOUSE MATRIPTASE-2: IDENTIFICATION, CHARACTERIZATION AND COMPARATIVE MRNA EXPRESSION ANALYSIS WITH MOUSE HEPsin IN ADULT AND EMBRYONIC TISSUES" BIOCHEMICAL JOURNAL, THE BIOCHEMICAL SOCIETY, LONDON, GB, vol. 373, no. 3, 1 August 2003 (2003-08-01), pages 689-702, XP009078644 ISSN: 0264-6021 see the whole document</p>	1-3,7-11
P,X	<p>PARR CHRISTIAN ET AL: "Matriptase-2 inhibits breast tumor growth and invasion and correlates with favorable prognosis for breast cancer patients." CLINICAL CANCER RESEARCH : AN OFFICIAL JOURNAL OF THE AMERICAN ASSOCIATION FOR CANCER RESEARCH 15 JUN 2007, vol. 13, no. 12, 15 June 2007 (2007-06-15), pages 3568-3576, XP002464747 ISSN: 1078-0432 see the whole document</p>	1-3,7-12
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INTERNATIONAL SEARCH REPORT

International application No

PCT/GB2007/002598

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	HOOPER J D ET AL: "Type II transmembrane serine proteases" JOURNAL OF BIOLOGICAL CHEMISTRY, AMERICAN SOCIETY OF BIOCHEMICAL BIOLOGISTS, BIRMINGHAM,, US, vol. 276, no. 2, 12 January 2001 (2001-01-12), pages 857-860, XP002192577 ISSN: 0021-9258 -----	
A	NETZEL-ARNETT S ET AL: "MEMBRANE ANCHORED SERINE PROTEASES: A RAPIDLY EXPANDING GROUP OF CELL SURFACE PROTEOLYTIC ENZYMES WITH POTENTIAL ROLES IN CANCER" CANCER AND METASTASIS REVIEWS, KLUWER ACADEMIC PUBLISHERS, DORDRECHT, NL, vol. 22, no. 2/3, 2003, pages 237-258, XP009036432 ISSN: 0167-7659 -----	

INTERNATIONAL SEARCH REPORT

International application No.
PCT/GB2007/002598

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 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 13 to 15 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 No. III Observations where unity of invention is lacking (Continuation of item 3 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 allsearchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search reportcovers 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 and, where applicable, the payment of a protest fee.
- ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/GB2007/002598

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
WO 0157194	A	09-08-2001	AU	3326201 A		14-08-2001
			CA	2396774 A1		09-08-2001
			EP	1252300 A2		30-10-2002
			JP	2003521920 T		22-07-2003
			US	2003119168 A1		26-06-2003
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