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(54) Title: DIAGNOSTICS AND THERAPEUTICS FOR DISEASES ASSOCIATED WITH PROTECTIVE PROTEIN FOR BETA-GALACTOSIDASE (PPGB)

(57) Abstract: The invention provides a human PPGB which is associated with the cardiovascular diseases, dermatological diseases, endocrinological diseases, metabolic diseases, inflammation, gastroenterological diseases, cancer, hematological diseases, respiratory diseases, neurological diseases and urological diseases. The invention also provides assays for the identification of compounds useful in the treatment or prevention of cardiovascular diseases, dermatological diseases, endocrinological diseases, metabolic diseases, inflammation, gastroenterological diseases, cancer, hematological diseases, respiratory diseases, neurological diseases and urological diseases. The invention also features compounds which bind to and/or activate or inhibit the activity of PPGB as well as pharmaceutical compositions comprising such compounds.



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INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2005/007952

A. CLASSIFICATION OF SUBJECT MATTER		
C12Q1/37	G01N33/68	G01N33/574 A61K39/00 A61K48/00
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) C12Q G01N 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) EPO-Internal, WPI Data, BIOSIS, EMBASE		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 03/056341 A (BIOVISION AG; LAMPING, NORBERT; KREIPE, HANS; HESS, RUEDIGER; KELLEMAN) 10 July 2003 (2003-07-10) claims 12-17	19-23
A	WO 98/44128 A (INCYTE PHARMACEUTICALS, INC; BANDMAN, OLGA; HAWKINS, PHILLIP, R; HILLM) 8 October 1998 (1998-10-08) page 21, line 29 - page 25, line 27 page 29, line 20 - page 31, line 26	1-26
A	WO 02/29103 A (GENE LOGIC, INC; HORNE, DARCI; ALVARES, CHRISTOPHER; PERES-DA-SILVA, S) 11 April 2002 (2002-04-11) cited in the application claims 1,4	1-26
<input 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 <p align="center">13 December 2005</p>		Date of mailing of the international search report <p align="center">25. 01. 2006</p>
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 align="center">Pellegrini, P</p>

INTERNATIONAL SEARCH REPORT

International application No.
PCT/EP2005/007952

Box 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 26 is 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 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:

see additional sheet

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.:

1-26 (partially)

Remark on Protest

- The additional search fees were accompanied by the applicant's protest.
- No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: claims 1-26 (partially)

Diagnostic, screening and therapeutic methods for Alzheimer's disease in a mammal based on PPGB.

2. claims: claims 1-26 (partially)

Diagnostic, screening and therapeutic methods for spleen liver cirrhosis, liver liver cirrhosis, pancreas liver cirrhosis in a mammal based on PPGB.

3. claims: claims 1-26 (partially)

Diagnostic, screening and therapeutic methods for stomach cancer, liver cancer, ovary cancer, breast cancer, prostate cancer, kidney cancer in a mammal based on PPGB.

4. claims: claims 1-26 (partially)

Diagnostic, screening and therapeutic methods for respiratory diseases in a mammal based on PPGB.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2005/007952

Patent document cited in search report	A	Publication date	AU	Patent family member(s)	Publication date
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