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WO 02/018567 A3

(54) Title: REGULATION OF HUMAN AMINOTRANSFERASE-LIKE ENZYME

(57) Abstract: Reagents which regulate human aminotransferase-like enzyme and reagents which bind to human aminotransferase-like enzyme gene products can play a role in preventing, ameliorating, or correcting dysfunctions or diseases including, but not limited to, cancer.

INTERNATIONAL SEARCH REPORT

International Application No
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A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12N15/54 C12N9/10 C12N1/21 C12N5/10 C12N15/62
C12Q1/52 A61K48/00 A61K39/395 A61K31/7088

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 C12N A61K C12Q

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, SEQUENCE SEARCH

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE EBI [Online] 28 May 1995 (1995-05-28) HILLIER L ET AL: "The WasU-Merck EST Project" Database accession no. HS792122 XP002214874 the whole document	1-9, 18-35
P,X	DATABASE EBI [Online] 1 March 2001 (2001-03-01) "Alanine:glyoxylate aminotransferase 2" Database accession no. Q9H174 XP002214875 the whole document	1-9, 18-35

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

1 October 2002

Date of mailing of the international search report

23. 10. 2002

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INTERNATIONAL SEARCH REPORT

International Application No
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
L	<p>DATABASE EBI [Online] 5 June 2002 (2002-06-05) Database accession no. AAU87298 XP002214877 document cited to provide information about SEQ ID NO 816 of W00155318 the whole document</p>	1-70
P,X	<p>& WO 01 55318 A (HUMAN GENOME SCIENCE) 2 August 2001 (2001-08-02) ---</p>	
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P,X	<p>& WO 01 55318 A (HUMAN GENOME SCIENCE) 2 August 2001 (2001-08-02) ---</p>	
L	<p>DATABASE EBI [Online] 5 June 2002 (2002-06-05) Database accession no. ABK43894 XP002214881 document cited to provide information about SEQ ID NO 484 of W00155318 the whole document</p>	1-70
P,X	<p>& WO 01 55318 A (HUMAN GENOME SCIENCE) 2 August 2001 (2001-08-02) ---</p>	1-70
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INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP 01/09849

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
L	<p>DATABASE EBI [Online] 24 May 2002 (2002-05-24) Database accession no. ABB89287 XP002214882 document cited to provide information about SEQ ID NO 1663 of W00190304 the whole document</p>	1-70
E	<p>& WO 01 90304 A (HUMAN GENOME SCIENCES) 29 November 2001 (2001-11-29) ---</p>	
L	<p>DATABASE EBI [Online] 16 April 2002 (2002-04-16) Database accession no. ABA93133 XP002214884 document cited to provide information about SEQ ID NO 1 of W00196542 abstract</p>	1-70
E	<p>& WO 01 96542 A (MILLENNIUM PHARM) 20 December 2001 (2001-12-20) ---</p>	
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E	<p>-& WO 01 90304 A (HUMAN GENOME SCIENCES) 29 November 2001 (2001-11-29) ---</p>	
L	<p>DATABASE EBI [Online] 5 June 2002 (2002-06-05) Database accession no. AAU87266 XP002214876 document cited to provide information about SEQ ID NO 784 of W00155318 abstract</p>	1-70
P,X	<p>-& WO 01 55318 A (HUMAN GENOME SCIENCE) 2 August 2001 (2001-08-02) -----</p>	

INTERNATIONAL SEARCH REPORT

International application No.
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Box I Observations where certain claims were found unsearchable (Continuation of item 1 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 16 17 52-57 59 68-70 are (partially) 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:

see FURTHER INFORMATION sheet PCT/ISA/210
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 II Observations where unity of invention is lacking (Continuation of item 2 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 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.:

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

Continuation of Box I.2

Present claims 13-17 52 53 55 58-60 62 68-70 (partially) relate to a product defined by reference to a desirable characteristic or property, namely being able to interact with the aminotransferase-like enzyme or its encoding nucleotides.

The claims cover all products having this characteristic or property, whereas the application provides support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT for only a very limited number of such products. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Independent of the above reasoning, the claims also lack clarity (Article 6 PCT). An attempt is made to define the product by reference to a result to be achieved. Again, this lack of clarity in the present case is such as to render a meaningful search over the whole of the claimed scope impossible. Consequently, the search has been carried out for those parts of the claims which appear to be clear, supported and disclosed, namely those parts relating to antibodies, antisense nucleotides and ribozymes against the aminotransferase-like enzyme or its encoding nucleotides.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 01/09849

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