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Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

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

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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.



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(54) Title: HUMAN PROTEIN C ANALOGS

(57) Abstract: This present invention provides human protein C analogs having increased activity as compared to wild-type human activated protein C.

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2005/036310A. CLASSIFICATION OF SUBJECT MATTER
INV. C12N9/64 A61K38/48

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 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, PAJ, CHEM ABS 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 02/32461 A (MAXYGEN APS; MAXYGEN HOLDINGS LTD) 25 April 2002 (2002-04-25) abstract page 4 - page 5 page 24, line 7 - line 18 page 26, line 13 - page 28, line 19 page 69; claim 33	1-6, 13-30
X	WO 01/36462 A (ELI LILLY AND COMPANY; GERLITZ, BRUCE, EDWARD; GRINNELL, BRIAN, WILLIA) 25 May 2001 (2001-05-25) abstract page 6, line 3 - line 12	1-6, 13-30
X	EP 0 443 874 A (ELI LILLY AND COMPANY) 28 August 1991 (1991-08-28) abstract page 14, line 6 - line 9	1-6, 13-30
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 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

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- *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.
- *Z* document member of the same patent family

Date of the actual completion of the international search

30 January 2006

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25.01.2006

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INTERNATIONAL SEARCH REPORT

International application No
PCT/US2005/036310

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 03/106666 A (MAXYGEN APS; MAXYGEN HOLDINGS LTD; SONI, BOBBY) 24 December 2003 (2003-12-24) abstract page 5, line 12 - line 32 page 17, line 30 - line 33 -----	1-6, 13-30
X	WO 00/66754 A (ELI LILLY AND COMPANY; GERLITZ, BRUCE, EDWARD; JONES, BRYAN, EDWARD) 9 November 2000 (2000-11-09) abstract page 4, line 30 - page 5, line 12 -----	1-6, 13-30

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2005/036310

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:

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.:

1-4 (partially), 5, 6, and 13-30 (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:

Invention 1: Claim 1-4 (partially), 5, 6, and 13-30 (partially)

Human protein C variant having an amino acid substitution at least at position 3 of the wild-type sequence and related embodiments.

Inventions 2-26: Claims 1-4 (partially), and 7-30 (partially)

Human protein C variants having amino acid substitutions at least at positions 5, 8, 32, 34, 94, 202, 242, 243, 244, 248, 254, 261, 264, 265, 272, 293, 303, 309, 310, 313, 324, 348, 353, 367, and 375 of the wild-type sequence and related embodiments.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No
PCT/US2005/036310

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