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LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY,
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FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL,
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(54) Title: PC5 AS A FACTOR IX PROPEPTIDE PROCESSING ENZYME

(57) Abstract: Compositions and methods for preparing Factor IX, Factor IX-containing fusion proteins, and Factor IX-containing conjugates with processing of Factor IX propeptide by PC5, are provided. In one embodiment PC5 is used to process a precursor polypeptide for a Factor IX-Fc monomer-dimer hybrid.

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2007/007252

A. CLASSIFICATION OF SUBJECT MATTER
INV. C07K14/745 C12N9/64

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)
C07K 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, 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	WO 2005/001025 A (SYNTONIX INC [US]; PETERS ROBERT T [US]; MEZO ADAM R [US]; RIVERA DANI) 6 January 2005 (2005-01-06)	76,77
Y	*claims*	1-75
Y	WO 2004/101740 A (SYNTONIX PHARMACEUTICALS INC [US]; RIVERA DANIEL S [US]; PETERS ROBERT) 25 November 2004 (2004-11-25)	1-77
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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
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- *&* document member of the same patent family

Date of the actual completion of the international search

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Name and mailing address of the ISA/

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INTERNATIONAL SEARCH REPORT

International application No
PCT/US2007/007252

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6 380 171 B1 (DAY ROBERT [CA] ET AL) 30 April 2002 (2002-04-30) the whole document	1-77
A	----- NAKAYAMA ET AL: "Furin: A mammalian subtilisin/Kex2P-like endoprotease involved in processing of a wide variety of precursor proteins" BIOCHEMICAL JOURNAL, PORTLAND PRESS, LONDON, GB, vol. 327, no. PART 3, 1 November 1997 (1997-11-01), pages 625-635, XP002116727 ISSN: 0264-6021	
A	----- BITONTI A J ET AL: "Pulmonary delivery of an erythropoietin Fc fusion protein in non-human primates through an immunoglobulin transport pathway" PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA, NATIONAL ACADEMY OF SCIENCE, WASHINGTON, DC, US, vol. 101, no. 26, 29 June 2004 (2004-06-29), pages 9763-9768, XP003008495 ISSN: 0027-8424	
T	----- DUMONT JENNIFER A ET AL: "MONOMERIC FC FUSIONS: IMPACT ON PHARMACOKINETIC AND BIOLOGICAL ACTIVITY OF PROTEIN THERAPEUTICS" BIODRUGS, AUCKLAND, NZ, vol. 20, no. 3, 2006, pages 151-160, XP009082835 ISSN: 1173-8804 -----	

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2007/007252

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<hr style="border-top: 1px dashed black;"/>				

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US2007/007252

Box No. I Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of:
 - a. type of material
 - a sequence listing
 - table(s) related to the sequence listing
 - b. format of material
 - on paper
 - in electronic form
 - c. time of filing/furnishing
 - contained in the International application as filed
 - filed together with the international application in electronic form
 - furnished subsequently to this Authority for the purpose of search
2. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
3. Additional comments: