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(54) Title: HUMAN SECRETED PROTEINS

(57) Abstract: The present invention relates to human secreted polypeptides, and isolated nucleic acid molecules encoding said polypeptides, useful for diagnosing and treating immune disorders and diseases. Antibodies that bind these polypeptides are also encompassed by the present invention. Also encompassed by the invention are vectors, host cells, and recombinant and synthetic methods for producing said polynucleotides, polypeptides, and/or antibodies. The invention further encompasses screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The present invention further encompasses methods and compositions for inhibiting or enhancing the production and function of the polypeptides of the present invention.

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US02/08278

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) :A01N 37/18; C07K 1/00; C07H 21/02.

US CL : 514/2; 530/350; 536/23.1.

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)

U.S. : 514/2; 530/350; 536/23.1.

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 practicable, search terms used)

GenEmbl; N_GeneSeq; Issued_Patents.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	Database GenEmbl, Sanger Centre, Hinxton, UK, No. AL445590, Direct Submission, Pearce, A., 27 November 2000.	1-4 and 13-18

☐ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

*	Special categories of cited documents:	"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
"A"	document defining the general state of the art which is not considered to be of particular relevance	"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
"E"	earlier document published on or after the international filing date	"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
"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)	"&"	document member of the same patent family
"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		

Date of the actual completion of the international search 06 FEBRUARY 2003	Date of mailing of the international search report 30 MAY 2003
Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Facsimile No. (703) 305-3230	Authorized officer HOPE ROBINSON Valerie Bell-Harris for Telephone No. (703) 308-0196

Form PCT/ISA/210 (second sheet) (July 1998)★

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US02/08278

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This international 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 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:

Please See Extra 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 and 13-18 (SEQ ID NO: 11, 908)

Remark on Protest

☐ The additional search fees were accompanied by the applicant's protest.

☐ No protest accompanied the payment of additional search fees.

BOX II. OBSERVATIONS WHERE UNITY OF INVENTION WAS LACKING
This ISA found multiple inventions as follows:

This application contains the following inventions or groups of inventions which are not so linked as to form a single inventive concept under PCT Rule 13.1. In order for all inventions to be searched, the appropriate additional search fees must be paid.

Groups 1-897, claim(s) 1-4 and 13-18, all in part, drawn to a polypeptide of SEQ ID NO: Y, wherein Y correlates to one of those listed in Table 1A, and corresponds to one of the cDNA clone IDs respectively. For example,
If Group 1 is elected, this correlates to Gene No. 1, cDNA clone ID H2CBG48 of Table 1A, wherein Y is 908.
If Group 2 is elected, this correlates to Gene No. 2, cDNA clone ID H2MAC30, wherein Y is 909.

*The remaining groups will not be listed.

Groups 898-1794, claim(s) 5-6 and 19-20, all in part, drawn to an antibody that binds to a protein with SEQ ID NO: Y, wherein Y correlates to one of those listed in Table 1A, and corresponds to one of the cDNA clone IDs respectively. For example,
If Group 898 is elected, this correlates to Gene No. 1, cDNA clone ID H2CBG48 of Table 1A, wherein Y is 908.
If Group 899 is elected, this correlates to Gene No. 2, cDNA clone ID H2MAC30, wherein Y is 909.

*The remaining groups will not be listed.

Groups 1795-2691, claim(s) 13, all in part, drawn to a nucleic acid of SEQ ID NO: X or a peptide of SEQ ID NO: Y, wherein X and Y are values that correlate to one of those listed in Table 1A, and corresponds to one of the cDNA clone IDs respectively. For example,
If Group 1795 is elected, this correlates to Gene No. 1, cDNA clone ID H2CBG48 of Table 1A, wherein X is 11 and Y is 908.
If Group 1796 is elected, this correlates to Gene No. 2, cDNA clone ID H2MAC30, wherein X is 12 and Y is 909.

*The remaining groups will not be listed.

Groups 2692-3598, claim(s) 11-12, all in part, drawn to an an agonist/antagonist of SEQ ID NO: Y, wherein Y correlates to one of those listed in Table 1A, and corresponds to one of the cDNA clone IDs respectively. For example,
If Group 2692 is elected, this correlates to Gene No. 1, cDNA clone ID H2CBG48 of Table 1A, wherein Y is 908.
If Group 2693 is elected, this correlates to Gene No. 2, cDNA clone ID H2MAC30, wherein Y is 909.

*The remaining groups will not be listed.

The inventions listed as Groups 1-3598 do not relate to a single inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

The polynucleotides and polypeptides of each invention are unrelated, each to the other because Pearce (Accession No. AL445590, 200) teaches the DNA set forth in SEQ ID NO: 11. Thus the technical feature of the polynucleotide sequence is not special and the groups are not so linked under PCT Rule 13.1. Additionally, the claimed methods produce different products and/or different results which are not coextensive and which do not share the same technical feature.