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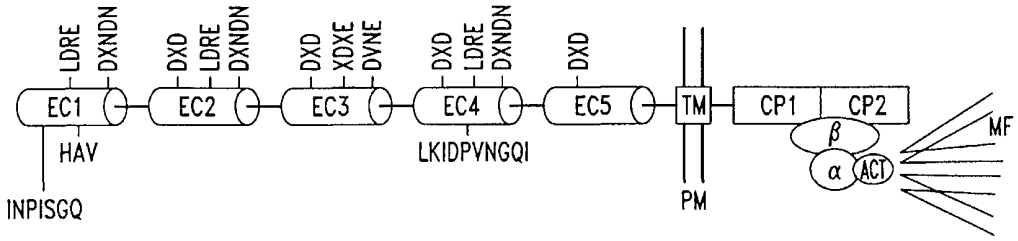
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4 May 2000 (04.05.00)

(54) Title: COMPOUNDS AND METHODS FOR MODULATING CADHERIN-MEDIATED FUNCTIONS



(57) Abstract

Modulating agents and methods for enhancing or inhibiting cadherin-mediated functions are provided. The modulating agents comprise at least an HAV binding motif, an analogue or peptidomimetic thereof, or an antibody or fragment thereof that specifically binds to such a motif. Modulating agents may additionally comprise one or more cell adhesion recognition sequences recognized by cadherins and/or other adhesion molecules. Such modulating agents may, but need not, be linked to a targeting agent, drug and/or support material.

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INTERNATIONAL SEARCH REPORT

Inten nal Application No
PCT/CA 99/00627

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C07K14/705 C07K7/06 C07K7/64 A61K47/48 G01N33/68

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 C07K A61K G01N

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)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 411 503 A (TECNOGEN S P A) 6 February 1991 (1991-02-06) claim 5 ---	6-8
X	JP 08 151396 A (TEIJIN LTD) 11 June 1996 (1996-06-11) page 44, column 86, line 4 ---	6-8
P,X	WO 98 45319 A (UNIV MCGILL ;GOUR BARBARA J (CA); BLASCHUK OREST W (CA)) 15 October 1998 (1998-10-15) the whole document --- -/--	1,2,9, 10, 24-45, 52-74

[X] Further documents are listed in the continuation of box C.

[X] Patent family members are listed in annex.

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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.

"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
20 March 2000	27/03/2000

Name and mailing address of the ISA	Authorized officer
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	Cervigni, S

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Form PCT/ISA/210 (second sheet) (July 1992)

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	HIDENOBU TANIHARA ET AL: "CLONING OF FIVE HUMAN CADHERINS CLARIFIES CHARACTERISTIC FEATURES OF CADHERIN EXTRACELLULAR DOMAIN AND PROVIDES FURTHER EVIDENCE FOR TWO STRUCTURALLY DIFFERENT TYPES OF CADHERIN" CELL ADHESION AND COMMUNICATION,US,HARWOOD ACADEMIC PUBLISHERS, GMBH, YVERDON,, vol. 2, 1 January 1994 (1994-01-01), pages 15-26, XP000576845 ISSN: 1061-5385 figure 6 ---	1,2,9
X	WO 98 02452 A (UNIV MCGILL) 22 January 1998 (1998-01-22) abstract; claims ---	1,2,10, 24-45, 52-74
X	WO 94 11401 A (UNIV YALE) 26 May 1994 (1994-05-26) claims ---	1,2,9, 24-45, 52-74
X	WO 91 04745 A (ATHENA NEUROSCIENCES INC) 18 April 1991 (1991-04-18) claims ---	1,2,9, 24-45, 52-74
X	US 5 646 250 A (SUZUKI SHINTARO) 8 July 1997 (1997-07-08) the whole document -----	1,2,9, 24-45, 52-74

INTERNATIONAL SEARCH REPORT

International application No.
PCT/CA 99/00627

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. [X] Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
Remark: Although claims 39-68, 73 are directed at least in part to a method of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

2. [X] Claims Nos.: 1,2,4,6,7
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.

INTERNATIONAL SEARCH REPORT

International Application No. PCT/CA 99 00627

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 1,2,4,6,7

Present claims 1,2,4,6,7 relate to an extremely large number of possible compounds. Support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT is to be found, however, for only a very small proportion of the compounds claimed.
In the present case, more than 500 peptides comprising the sequences listed in claim 7 were found in the prior art. The claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible.
Consequently, the search has been carried out for those parts of the claims which appear to be supported and disclosed, namely those relating to peptides ranging in size from 6 to 16 amino acid residues, as further specified in claim 8, as well as to the concept underlying claims 1 and 2.

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

Intern. nal Application No
PCT/CA 99/00627

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