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60/264,219 25 January 2001 (25.01.2001) US
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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: METHOD FOR TREATING PSORIASIS BY USING AN IL-17D ANTAGONIST

(57) Abstract: A method for treating psoriasis. An antagonist to IL-17D β 9(IL-17D) is administered to treat psoriasis. The antagonist can be an antibody that binds to IL-17D β 9 or its receptor or a soluble receptor that binds to IL-17D β 9 or a membrane-spanning protein-5 (MSP-5).

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 02/02244

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 A61K39/395 A61K38/17 A61P17/06

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

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, BIOSIS, MEDLINE, SEQUENCE SEARCH, CHEM ABS Data, EMBASE, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	TEUNISSEN MARCEL B M ET AL: "Interleukin-17 and interferon-gamma synergize in the enhancement of proinflammatory cytokine production by human keratinocytes." JOURNAL OF INVESTIGATIVE DERMATOLOGY, vol. 111, no. 4, October 1998 (1998-10), pages 645-649, XP002241100 ISSN: 0022-202X the whole document --- -/--	1-8

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

14 May 2003

Date of mailing of the international search report

30/05/2003

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 02/02244

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>HOMEY B ET AL: "Up-regulation of macrophage inflammatory protein-3 alpha/CCL20 and CC chemokine receptor 6 in psoriasis." JOURNAL OF IMMUNOLOGY (BALTIMORE, MD.: 1950) UNITED STATES 15 JUN 2000, vol. 164, no. 12, 15 June 2000 (2000-06-15), pages 6621-6632, XP002241101 ISSN: 0022-1767 the whole document</p> <p style="text-align: center;">---</p>	1-8
Y	<p>WO 00 42187 A (SCHERING CORP) 20 July 2000 (2000-07-20) pages 8, 16-19; seq IDs: 16 and 20</p> <p style="text-align: center;">---</p>	1-8
Y	<p>WO 00 15798 A (ZYMOGENETICS INC) 23 March 2000 (2000-03-23) example 1; sequence listing</p> <p style="text-align: center;">---</p>	1-8
Y	<p>WO 99 46380 A (INCYTE PHARMA INC ;CORLEY NEIL C (US); YUE HENRY (US); BANDMAN OLG) 16 September 1999 (1999-09-16) seq ID:5 and page 26, line 15-page 27, line 8</p> <p style="text-align: center;">---</p>	1-8
P,X	<p>WO 01 68859 A (AMGEN INC ;JING SHUQIAN (US)) 20 September 2001 (2001-09-20) page 84, lines 2-5; page 8, lines 3-6; figures 1 and 2</p> <p style="text-align: center;">-----</p>	1,3,5,7

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 02/02244

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 1-4 are 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:
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

Information on patent family members

International Application No

PCT/US 02/02244

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0042187	A	20-07-2000	AU 3207000 A	01-08-2000
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