The present invention provides TNF-α-defensin/chemokine fusion polypeptides and polynucleotides and methods of treating, inhibiting or preventing disease conditions mediated by pathological TNF-α, including chronic neuropathic pain, chronic inflammation, insulin resistance, diabetes, hyperlipidemia, hypertriglyceridemia, hypercholesterolemia and atherosclerosis, by administering a therapeutically effective amount of the TNF-α-defensin/chemokine fusion polypeptides and polynucleotides.
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER

IPC: A61K 38/19(2006.01), 39/00(2006.01); C07K 14/525(2006.01); C12P 21/00(2006.01); C12N 1/21(2006.01)

USPC: 424/192, 1, 184, 1: 530/35 1, 806; 14/2, 885; 435/69, 1, 697, 252.3

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.: 424/192, 1, 184, 1; 530/35 1, 806; 514/2, 885; 435/69, 1, 697, 252.3

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)

EAST, STN (MEDLINE, SCISEARCH, EMBASE, BIOSIS)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>US 6,562,347 B1 (KWAK et al) 13 May 2003 (13.05.2003), see entire document.</td>
<td>1-19</td>
</tr>
</tbody>
</table>

See patent family annex.

Date of the actual completion of the international search
04 August 2008 (04.08.2008)

Name and mailing address of the ISA/US
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JON M. LOCKARD
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Form PCT/ISA/210 (second sheet) (April 2007)
INTERNATIONAL SEARCH REPORT

Box No. 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. ☐ 1 Claims Nos.:
   because they relate to subject matter not required to be searched by this Authority, namely:

2. ☒ Claims Nos.: 5 and 8
   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:
   Claims 5 and 8 were unsearchable because they require a computer readable format (CRF) sequence listing to be searched. No CRF is present.

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 No. 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:

1. ☐ 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 additional fees, this Authority did not invite payment of any additional fees.

3. ☐ 1 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 and, where applicable, the payment of a protest fee.

☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.

☐ No protest accompanied the payment of additional search fees.