Title: BENZIMIDAZOLE ACETIC ACIDS EXHIBITING CRTH2 RECEPTOR ANTAGONISM AND USES THEREOF

Abstract: The invention relates to benzimidazole acetic acid compounds which function as antagonists of the Chemoaffectant Receptor-homologous molecule expressed on T-Helper type 2 cells (CRTH2) receptor. The invention also relates to the use of these compounds to inhibit the binding of prostaglandin D2 and its metabolites or certain thromboxane metabolites to the CRTH2 receptor and to treat disorders responsive to such inhibition.
**INTERNATIONAL SEARCH REPORT**

International application No.
PCT/US05/34028

A. CLASSIFICATION OF SUBJECT MATTER
   IPC(8) : C07D 235/06; A61K 31/4184
   US CL : 548/304.4; 514/394
   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.: 548/304.4; 514/394

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic database consulted during the international search (name of database and, where practicable, search terms used)
   EAST; WEST; STN Databases Online: FILE REG, FILE CAPLUS, structure searches, CRTH2 antagonists, etc.

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 6,121,308 (HAUEL et al) 19 September 2000 (19.04.2000), see entire document.</td>
<td>4</td>
</tr>
</tbody>
</table>

See patent family annex.

Date of the actual completion of the international search: 21 February 2006 (21.02.2006)

Date of mailing of the international search report: 23 March 2006

Name and mailing address of the ISA/US
   Mail Stop PCT, Attn: ISA/US
   Commissioner for Patents
   P.O. Box 1450
   Alexandria, Virginia 22313-1450
   Facsimile No. (571) 273-3201

Authorized officer: Janet L. Coppin
   Telephone No. 703.308.1235

Form PCT/ISA/210 (second sheet) (April 2005)
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. ☐ Claims Nos.:
   because they relate to subject matter not required to be searched by this Authority, namely:

2. ☑ Claims Nos.: 1-3 and 5-29
   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:
   Please See Continuation Sheet

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. ☐ 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. ☐ 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.

Form PCT/ISA/210 (continuation of first sheet(2)) (April 2005)
Continuation of Box II  Reason 2:

In these claims, the numerous variables (e.g. R1-R5, X, n, etc), their voluminous complex meanings, their seemingly endless permutations and combinations make it virtually impossible to determine the full scope and complete meaning of the claimed subject matter. As presented, the claimed subject matter cannot be regarded as being a clear and concise description for which protection is sought and as such the listed claims do not comply with the requirements of PCT article 6. Thus it is impossible to carry out a meaningful search on the same. A search will be made on the first discernable invention in the claims, which is the first compound as recited in claim 4.