
Inventors: and


Title: PYRAZINAMIDE FOR THE TREATMENT OF LEISHMANIASES

Abstract: Applicants claim the use of a pyrazine compound of formula (I), or a salt thereof, for treating or preventing leishmaniasis, and diseases and disorders caused by Trypanosoma cruzi or Trypanosoma brucei, and for inducing immunostimulation.

Figure 1

% Amastigote survival

0 20 40 60 80 100

24 48 96 120

Hours post treatment

Published:
— with international search report (Art. 21(3))
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

Date of publication of the international search report: 21 April 2011
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER

A61K 31/4965(2006.01)i, A61P 33/00(2006.01)i, A61P 37/00(2006.01)i

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)
A61K 31/4965; A61K 31/495; A61K 31/50

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Korean utility models and applications for utility models
Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
eKOMPASS(KIPO internal), google, PubMed.

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>
</table>

* 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 application or patent 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 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
"R" document member of the same patent family

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

Date of the actual completion of the international search
22 FEBRUARY 2011 (22.02.2011)

Date of mailing of the international search report
23 FEBRUARY 2011 (23.02.2011)

Name and mailing address of the ISA/KR
Korean Intellectual Property Office
Government Complex-, Daejeon, 139 Seomsa-ro, Seogu, Daejeon 302-711, Republic of Korea
Facsimile No. 82-42-472-7140

Authorized officer
PARK, JEONG UNG
Telephone No. 82-42-481-8131

Form PCT/ISA/210 (second sheet) (July 2009)
<table>
<thead>
<tr>
<th>Patent document cited in search report</th>
<th>Publication date</th>
<th>Patent family member(s)</th>
<th>Publication date</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>AU 2002-353949 A8</td>
<td>19.05.2003</td>
</tr>
<tr>
<td></td>
<td></td>
<td>US 2003-100569 A1</td>
<td>29.05.2003</td>
</tr>
<tr>
<td></td>
<td></td>
<td>WO 2003-039457 A2</td>
<td>15.05.2003</td>
</tr>
<tr>
<td></td>
<td></td>
<td>WO 2003-039457 A3</td>
<td>15.05.2003</td>
</tr>
<tr>
<td></td>
<td></td>
<td>US 7457422 B2</td>
<td>25.11.2008</td>
</tr>
</tbody>
</table>