Abstract:
Radiolabeled cyclic peptidomimetics, pharmaceutical compositions comprising radiolabeled cyclic peptidomimetics, and methods of using the radiolabeled cyclic peptidomimetics. Such peptidomimetics can be used in imaging studies, such as Positron Emitting Tomography (PET) or Single Photon Emission Computed Tomography (SPECT).
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER

INV. C07K5/12 A61K38/12 A61P35/00

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)
C07K A61K A61P

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 , CHEM ABS Data

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>
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</table>

Further documents are listed in the continuation of Box C.

D. See patent family annex.

Date of the actual completion of the international search
20 June 2008

Date of mailing of the international search report
02/07/2008

Name and mailing address of the ISA/
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

Authorized officer
Schmid, Arnold
<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>
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<tbody>
<tr>
<td>A</td>
<td><strong>CHEN XIAOYUAN ET AL:</strong> &quot;MicroPET imaging of brain tumor angiogenesis with 18F-labeled PEGylated RGD peptide&quot; <em>EUROPEAN JOURNAL OF NUCLEAR MEDICINE AND MOLECULAR IMAGING, SPRINGER VERLAG, HEIDELBERG, DE,</em> vol. 31, no. 8, 1 August 2004 (2004-08-01), pages 1081-1089, XP002470155 ISSN: 1619-7070 cited in the application abstract; figure 1.</td>
<td></td>
</tr>
</tbody>
</table>
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.:** 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).

This International Searching Authority found multiple inventions in this international application, as follows:

- see additional sheet

1. **X** As all required additional search fees were timely paid by the applicant, this international search report covers all searchable inventions.

2. **X** As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of additional fees.

3. **X** 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. **X** 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.
- **X** No protest accompanied the payment of additional search fees.
This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-7,26,29,32

   peptidomimetics of formula I, pharmaceutical compositions, methods of monitoring the integrin level and methods of imaging blood vessel growth

2. claims: 8-10,27(partly),30(partly),33(partly)

   peptidomimetics of formula II, pharmaceutical compositions, methods of monitoring the integrin level and the methods of imaging blood vessel growth

3. claims: 11-13

   peptidomimetics of formula III

4. claims: 14-22,25(partly),27(partly),28(partly),30(partly),31(partly),33(partly),34(partly)

   peptidomimetics of formula IV, pharmaceutical compositions, methods of monitoring the integrin level and methods of imaging blood vessel growth

5. claims: 23,24,25(partly),28(partly),31(partly),34(partly)

   peptidomimetics of formula V, compositions, methods of monitoring the integrin level and the methods of imaging blood vessel growth