The present invention discloses novel compounds of Formula (I), or pharmaceutically acceptable salts thereof, which have glucagon receptor antagonist or inverse agonist activity, as well as methods for preparing such compounds. In another embodiment, the invention discloses pharmaceutical compositions comprising compounds of Formula (I) as well as methods of using them to treat diabetic and other glucagon related metabolic disorders, and the like.
**INTERNATIONAL SEARCH REPORT**

**INTERNATIONAL APPLICATION**

PCT/US2006/060769

**A CLASSIFICATION OF SUBJECT MATTER**

| INV. | C07C238/42 | C07D213/10 | A61P3/10 | A61K31/166 | A61K31/4412 |

According to International Patent Classification (IPC) onto both national classification and IPC.

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

C07C  C07D  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, WPI Data, BEILSTEIN Data, 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>
</thead>
<tbody>
<tr>
<td>A</td>
<td>WO 2004/056763 A (NOVO NORDISK AS [DK]) 8 July 2004 (2004-07-08) the whole document</td>
<td>1, 8, 13, 14</td>
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</tbody>
</table>

**D. Further documents are listed in the continuation of Box C**

**X. See patent family annex**

- **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

**D** Additional documents are listed in the continuation of Box C:

- **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**

13 September 2007

**Date of mailing of the international search report**

21/09/2007

**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 xl Fax (+31-70) 340-3016

**Authorized officer**

Tabaneila, Stefania
**INTERNATIONAL SEARCH REPORT**

**Box 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. **X** Claims Nos because they relate to subject matter not required to be searched by this Authority, namely
   
   Although claims 9-12 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 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 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**

**☐** 1 The additional search fees were accompanied by the applicant’s protest

**☐** No protest accompanied the payment of additional search fees
<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>
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<tr>
<td>WO 2004056763 A</td>
<td>08-07-2004</td>
<td>AU 2003291959 A1</td>
<td>14-07-2004</td>
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