

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference BHC191046 WO	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/EP2020/081097	International filing date (<i>day/month/year</i>) 5 November 2020 (05-11-2020)	(Earliest) Priority Date (<i>day/month/year</i>) 6 November 2019 (06-11-2019)
Applicant BAYER AKTIENGESELLSCHAFT		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 3 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of:

- ☒ the international application in the language in which it was filed
☐ a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))

b. ☐ This international search report has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43.6**bis**(a)).

c. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box No. II)

3. ☐ **Unity of invention is lacking** (see Box No III)

4. With regard to the **title**,

- ☐ the text is approved as submitted by the applicant
☒ the text has been established by this Authority to read as follows:

INHIBITORS OF ADRENORECEPTOR ADRAC2

5. With regard to the **abstract**,

- ☒ the text is approved as submitted by the applicant
☐ the text has been established, according to Rule 38.2, by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority

6. With regard to the **drawings**,

- a. the figure of the **drawings** to be published with the abstract is Figure No. _____
☐ as suggested by the applicant
☐ as selected by this Authority, because the applicant failed to suggest a figure
☐ as selected by this Authority, because this figure better characterizes the invention
- b. ☐ none of the figures is to be published with the abstract

INTERNATIONAL SEARCH REPORT

International application No
PCT/EP2020/081097

A. CLASSIFICATION OF SUBJECT MATTER INV. C07D413/14 C07D417/14 A61K31/454 A61P9/00 A61P11/00 A61P25/00 ADD. 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) 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 practicable, search terms used) EPO-Internal, WPI Data														
C. DOCUMENTS CONSIDERED TO BE RELEVANT <table border="1"> <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 2015/091415 A1 (BAYER PHARMA AG [DE]) 25 June 2015 (2015-06-25) page 161; claim 1; examples 43, 45, 50, 53, 54, 56, 70-98, 104, 105 -----</td> <td>1-16</td> </tr> <tr> <td>A</td> <td>WO 2015/091420 A1 (BAYER PHARMA AG [DE]) 25 June 2015 (2015-06-25) cited in the application page 74; claim 1 -----</td> <td>1-16</td> </tr> <tr> <td>A</td> <td>WO 2008/060568 A2 (NEUROGEN CORP [US]; BAKTHAVATCHALAM RAJAGOPAL [US] ET AL.) 22 May 2008 (2008-05-22) claims 1, 85, 86; compounds 76-80 -----</td> <td>1-16</td> </tr> </tbody> </table>			Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	A	WO 2015/091415 A1 (BAYER PHARMA AG [DE]) 25 June 2015 (2015-06-25) page 161; claim 1; examples 43, 45, 50, 53, 54, 56, 70-98, 104, 105 -----	1-16	A	WO 2015/091420 A1 (BAYER PHARMA AG [DE]) 25 June 2015 (2015-06-25) cited in the application page 74; claim 1 -----	1-16	A	WO 2008/060568 A2 (NEUROGEN CORP [US]; BAKTHAVATCHALAM RAJAGOPAL [US] ET AL.) 22 May 2008 (2008-05-22) claims 1, 85, 86; compounds 76-80 -----	1-16
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☐ Further documents are listed in the continuation of Box C. ☒ See patent family annex.														
* Special categories of cited documents : <table border="0"> <tr> <td style="vertical-align: top;"> "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 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 </td> <td style="vertical-align: top;"> "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 </td> </tr> </table>			"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 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	"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										
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Date of the actual completion of the international search 14 January 2021		Date of mailing of the international search report 25/01/2021												
Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016		Authorized officer Miniejew, Catherine												

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/EP2020/081097

Patent document cited in search report			Publication date	Patent family member(s)			Publication date
WO 2015091415	A1	25-06-2015	CA	2934132	A1	25-06-2015	
			CN	106029648	A	12-10-2016	
			EP	3083594	A1	26-10-2016	
			JP	2017503783	A	02-02-2017	
			US	2016318866	A1	03-11-2016	
			WO	2015091415	A1	25-06-2015	

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			CN	106029657	A	12-10-2016	
			EP	3083610	A1	26-10-2016	
			JP	2017503778	A	02-02-2017	
			US	2016304492	A1	20-10-2016	
			WO	2015091420	A1	25-06-2015	

WO 2008060568	A2	22-05-2008	NONE				
