

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference BHC231032WO	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/EP2024/077295	International filing date (day/month/year) 27 September 2024 (27-09-2024)	(Earliest) Priority Date (day/month/year) 28 September 2023 (28-09-2023)
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 4 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 43.6bis(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:

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

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International application No
PCT/EP2024/077295

A. CLASSIFICATION OF SUBJECT MATTER					
INV.	A61P9/00	A61P11/00	A61P25/28	A61P29/00	A61P43/00
	C07D413/14	C07D417/14	C07D491/052		
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					
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, CHEM ABS Data					
C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category*	Citation of document, with indication, where appropriate, of the relevant passages				Relevant to claim No.
X	WO 2006/058905 A1 (DEVGEN NV [BE]; BLOM PETRA [BE] ET AL.) 8 June 2006 (2006-06-08)				1, 6 - 16
A	page 104; example 66 page 106; examples 84, 85 page 116; examples 163, 165, 168 page 118; example 176 claims see reaction scheme and intermediates; page 56 - page 61 -----				2 - 5
X	WO 2019/002074 A1 (BAYER AG [DE]; BAYER PHARMA AG [DE]) 3 January 2019 (2019-01-03)				1, 6, 7
A	page 100; claims; example 27 ----- - / - -				2 - 5, 8 - 16
☒ Further documents are listed in the continuation of Box C. ☒ See patent family annex.					
* 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 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					
Date of the actual completion of the international search 20 November 2024			Date of mailing of the international search report 02/12/2024		
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 Bedel, Christian		

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International application No
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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE CHEMCATS [Online] 6 April 2023 (2023-04-06), "RN 2974543-03-6", XP093225534, Database accession no. 0300466902 abstract -----	1 - 5
X	DATABASE CHEMCATS [Online] 6 April 2023 (2023-04-06), "RN 1358081-36-3", XP093225514, Database accession no. 1502615470 abstract -----	1, 2
X	DATABASE CHEMCATS [Online] 6 April 2023 (2023-04-06), "RN 1954022-51-5", XP093225507, Database accession no. 1846083409 abstract -----	1, 2
X	DATABASE CHEMCATS [Online] 6 April 2023 (2023-04-06), "RN 2974525-71-6", XP093225529, Database accession no. 0867745744 abstract -----	1 - 5
X	DATABASE CHEMCATS [Online] 6 April 2023 (2023-04-06), "RN 2394582-60-0", XP093225464, Database accession no. 1709760042 abstract -----	1, 2
A	WO 2021/089683 A1 (BAYER AG [DE]) 14 May 2021 (2021-05-14) the whole document -----	1 - 16
A	WO 2005/118579 A2 (ASTRAZENECA AB [SE]; ASTRAZENECA UK LTD [GB] ET AL.) 15 December 2005 (2005-12-15) claims; examples -----	1 - 16
A	WO 2022/048631 A1 (INNOVSTONE THERAPEUTICS LTD [CN]) 10 March 2022 (2022-03-10) see reaction scheme; page 68 -----	6

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Information on patent family members

International application No

PCT/EP2024/077295

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2006058905 A1	08-06-2006	AU 2005311251 A1 BR PI0516915 A CA 2588517 A1 CN 101098698 A EP 1819330 A1 JP 2008521862 A KR 20070094754 A US 2008125432 A1 WO 2006058905 A1	08-06-2006 11-03-2008 08-06-2006 02-01-2008 22-08-2007 26-06-2008 21-09-2007 29-05-2008 08-06-2006
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