

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 01277-0018-00PCT	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/US2023/069331	International filing date (<i>day/month/year</i>) 29 June 2023 (29-06-2023)	(Earliest) Priority Date (<i>day/month/year</i>) 30 June 2022 (30-06-2022)
Applicant BRISTOL-MYERS SQUIBB COMPANY		

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 5 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

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2023/069331

A. CLASSIFICATION OF SUBJECT MATTER		
INV.	C07D401/14	C07D405/14
	C07D491/048	C07D491/052
	A61P35/00	A61K31/4709
		A61K31/517
		A61K31/5377
		A61K31/4545
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 A61K		
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, BIOSIS, CHEM ABS Data, EMBASE		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2018/102725 A1 (ARVINAS INC [US]) 7 June 2018 (2018-06-07) the whole document in particular abstract and examples 533, 540 and 479 -----	1-95
X	CN 113 292 536 A (SICHUAN HAISCO PHARMACEUTICAL CO LTD) 24 August 2021 (2021-08-24) the whole document in particular page 84 compounds (If) and (Ig) ----- -/-	1-95
☒ 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 18 September 2023		Date of mailing of the international search report 25/09/2023
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 Papathoma, Sofia

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International application No
PCT/US2023/069331

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2021/077010 A1 (ARVINAS OPERATIONS INC [US]) 22 April 2021 (2021-04-22) the whole document in particular abstract, compound 177 on page 636 and compound 154 on page 479 (Step 4 and 5) -----	1-95
X	WO 2018/071606 A1 (ARVINAS INC [US]) 19 April 2018 (2018-04-19) the whole document in particular abstract and compounds 105, 106, 117, 128, 130, 155, 156, 178, 190, 204, 216, 235, 237, 240, 245, 309, 334, 337, 338, 542, 579, 580, 584, 586, 597, 600, 601, 619, 620, 621-623, 625 -----	1-95
X	WO 2022/019597 A1 (UBIX THERAPEUTICS CO LTD) 27 January 2022 (2022-01-27) the whole document	1-95
X,P	& EP 4 186 904 A1 (UBIX THERAPEUTICS INC [KR]) 31 May 2023 (2023-05-31) the whole document in particular abstract and examples 146, 148, 163 and 167 -----	1-95
X	US 2022/047709 A1 (GRAY NATHANAEL S [US] ET AL) 17 February 2022 (2022-02-17) the whole document -----	1-95
X	VAKILI-SAMIANI SAJJAD ET AL: "Cell cycle involvement in cancer therapy; WEE1 kinase, a potential target as therapeutic strategy", MUTATION RESEARCH, ELSEVIER, AMSTERDAM, NL, vol. 824, 1 January 2022 (2022-01-01), XP087060686, ISSN: 0027-5107, DOI: 10.1016/J.MRFMMM.2022.111776 [retrieved on 2022-02-19] the whole document in particular page 5, Table 1, compound ZNL-06-096 -----	1-95
X	YIN LINA ET AL: "Chimera induced protein degradation: PROTACs and beyond", EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, ELSEVIER, AMSTERDAM, NL, vol. 206, 19 July 2020 (2020-07-19), XP086299069, ISSN: 0223-5234, DOI: 10.1016/J.EJMECH.2020.112494 [retrieved on 2020-07-19] the whole document in particular Figure 1 and Table 2 -----	1-95

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

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