

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 30435	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/US2023/079720	International filing date (<i>day/month/year</i>) 15 November 2023 (15-11-2023)	(Earliest) Priority Date (<i>day/month/year</i>) 16 November 2022 (16-11-2022)
Applicant ELI LILLY AND 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 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:

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/US2023/079720

A. CLASSIFICATION OF SUBJECT MATTER INV. A61P3/00 C07D405/06 C07D405/14 A61K31/435 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) A61P 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, WPI 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 2021/081207 A1 (GILEAD SCIENCES INC [US]) 29 April 2021 (2021-04-29) cited in the application page 1, line 7 - line 10 examples 345, 831, 852 claims 1-33 -----	1-33
X	WO 2022/225941 A1 (GILEAD SCIENCES INC [US]) 27 October 2022 (2022-10-27) cited in the application page 1, line 7 - line 10 examples 143, 149, 154 tables 2, 3 claims 1-52 -----	1-33
☐ 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		Date of mailing of the international search report
19 February 2024		01/03/2024
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 Koch, Kristian

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2023/079720

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2021081207 A1	29-04-2021	AU 2020369568 A1	05-05-2022
		BR 112022007627 A2	12-07-2022
		CA 3157525 A1	29-04-2021
		CL 2022001030 A1	03-02-2023
		CN 114630823 A	14-06-2022
		CO 2022005077 A2	10-05-2022
		CR 20220178 A	15-06-2022
		EP 4048664 A1	31-08-2022
		IL 292399 A	01-06-2022
		JP 2022552735 A	19-12-2022
		JP 2023184759 A	28-12-2023
		KR 20220092909 A	04-07-2022
		PE 20221040 A1	17-06-2022
		TW 202130630 A	16-08-2021
		TW 202317535 A	01-05-2023
		US 2021171499 A1	10-06-2021
		US 2023391747 A1	07-12-2023
		WO 2021081207 A1	29-04-2021
WO 2022225941 A1	27-10-2022	AU 2022263410 A1	05-10-2023
		BR 112023021561 A2	19-12-2023
		CA 3216163 A1	27-10-2022
		CO 2023013757 A2	10-11-2023
		CR 20230495 A	30-11-2023
		DO P2023000232 A	30-11-2023
		EP 4271672 A1	08-11-2023
		IL 306110 A	01-11-2023
		KR 20230173708 A	27-12-2023
		TW 202302569 A	16-01-2023
		US 2023102927 A1	30-03-2023
		WO 2022225941 A1	27-10-2022