

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 12849WOPCT	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/US2018/041573	International filing date (<i>day/month/year</i>) 11 July 2018 (11-07-2018)	(Earliest) Priority Date (<i>day/month/year</i>) 12 July 2017 (12-07-2017)
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 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/US2018/041573

A. CLASSIFICATION OF SUBJECT MATTER

INV. C07D403/12 C07D231/20 C07D231/22 C07D231/56 C07D401/04
 C07D417/12 C07D417/14 C07D491/04 C07D495/04 C07D519/00
 A61P21/00 A61P9/00 A61P29/00 A61P35/00 A61P37/00

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, 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.
A	WO 2016/010950 A1 (SQUIBB BRISTOL MYERS CO [US]) 21 January 2016 (2016-01-21) cited in the application claims 1, 2, 18 page 4, line 21 - line 23 examples -----	1-17
A	WO 2010/032875 A2 (ASTELLAS PHARMA INC [JP]; TERASAWA TAKESHI [JP]; SHIGENAGA SHINJI [JP]) 25 March 2010 (2010-03-25) claims 1, 9-12 -----	1-17
X,P	WO 2017/123860 A1 (BRISTOL-MYERS SQUIBB COMPANY [US]) 20 July 2017 (2017-07-20) claims 1, 14-18 -----	1,13-17



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

23 August 2018

Date of mailing of the international search report

06/09/2018

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2018/041573

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2016010950	A1	21-01-2016	AR 101208 A1 30-11-2016
		AU 2015289897 A1 09-03-2017	
		BR 112017000808 A2 05-12-2017	
		CA 2954976 A1 21-01-2016	
		CL 2017000089 A1 15-09-2017	
		CN 106817899 A 09-06-2017	
		EP 3169682 A1 24-05-2017	
		JP 2017520604 A 27-07-2017	
		KR 20170023187 A 02-03-2017	
		PE 06722017 A1 22-05-2017	
		PH 12017500072 A1 15-05-2017	
		SG 11201700251P A 27-02-2017	
		TW 201607933 A 01-03-2016	
		US 2016016914 A1 21-01-2016	
		US 2018155296 A1 07-06-2018	
		UY 36215 A 29-01-2016	
		WO 2016010950 A1 21-01-2016	
WO 2010032875	A2	25-03-2010	BR PI0918045 A2 01-12-2015
		CA 2737738 A1 25-03-2010	
		CN 102159547 A 17-08-2011	
		EP 2331507 A2 15-06-2011	
		JP 2012502882 A 02-02-2012	
		KR 20110060894 A 08-06-2011	
		US 2011166161 A1 07-07-2011	
		WO 2010032875 A2 25-03-2010	
WO 2017123860	A1	20-07-2017	AR 107354 A1 18-04-2018
		CA 3010900 A1 20-07-2017	
		CO 2018008173 A2 21-08-2018	
		TW 201726619 A 01-08-2017	
		UY 37073 A 31-07-2017	
		WO 2017123860 A1 20-07-2017	