

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference STX-P2684PCT	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/GB2020/053357	International filing date (<i>day/month/year</i>) 23 December 2020 (23-12-2020)	(Earliest) Priority Date (<i>day/month/year</i>) 23 December 2019 (23-12-2019)
Applicant SITRYX THERAPEUTICS LIMITED		

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 7 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:

CARBOXY DERIVATIVES WITH ANTIINFLAMMATORY PROPERTIES

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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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☒ Claims Nos.: 58
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- ☐ No protest accompanied the payment of additional search fees.

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A. CLASSIFICATION OF SUBJECT MATTER

INV. C07D271/06 A61K31/4245 A61P19/02 A61P29/00
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

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

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	AMRENDRA K. ROY ET AL: "Facile Baylis-Hillman Reaction of Substituted 3-Isioxazolecarbaldehydes: The Impact of a Proximal Heteroatom Within a Heterocycle on the Acceleration of the Reaction", SYNTHESIS, no. 15, 1 January 2003 (2003-01-01), pages 2325-2330, XP055693028, STUTTGART, DE. ISSN: 0039-7881, DOI: 10.1055/s-2003-41072 page 2326; compounds 16a-16c ----- -/-	1-57, 59-69



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

3 March 2021

Date of mailing of the international search report

15/03/2021

Name and mailing address of the ISA/

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Gettins, Marc

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	HAOPENG SUN ET AL: "Recent progress in the development of small molecule Nrf2 modulators: a patent review (2012-2016)", EXPERT OPINION ON THERAPEUTIC PATENTS, vol. 27, no. 7, 10 May 2017 (2017-05-10), pages 763-785, XP055547200, ISSN: 1354-3776, DOI: 10.1080/13543776.2017.1325464 page 778 -----	1-57, 59-69
A	AMRENDRA K. ROY ET AL: "Highly Substituted Isoxazoles: The Baylis-Hillman Reaction of Substituted 4-Isoxazolecarbaldehydes and Attempted Cyclization to Isoxazole-Annulated Derivatives.", CHEMINFORM, vol. 34, no. 47, 25 November 2003 (2003-11-25), page 1356, XP055693022, DE ISSN: 0931-7597, DOI: 10.1002/chin.200347112 page 1349; compounds 13b-13c -----	1-57, 59-69
A	BAGAVANT G. ET AL.: INDIAN J. PHARM. SCI., vol. 56, 1994, pages 80-85, XP009512377, cited in the application the whole document -----	1-57, 59-69
X	JOACHIMIAK LUKASZ ET AL: "Synthesis and Biological Evaluation of Imidazole-Bearing [alpha]-Phosphonocarboxylates as Inhibitors of Rab Geranylgeranyl Transferase (RGGT)", CHEMMEDCHEM, vol. 13, no. 8, 23 April 2018 (2018-04-23), pages 842-851, XP055779219, DE ISSN: 1860-7179, DOI: 10.1002/cmdc.201700791 Retrieved from the Internet: URL:https://api.wiley.com/onlinelibrary/tdm/v1/articles/10.1002%2Fcmdc.201700791> Scheme 2 p44; compounds 10g-10i ----- -/--	57

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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.
A	HAAS DIANA ET AL: "Regioselective Functionalization of the Oxazole Scaffold Using TMP-Bases of Mg and Zn", ORGANIC LETTERS, vol. 15, no. 24, 20 December 2013 (2013-12-20), pages 6162-6165, XP055779270, US ISSN: 1523-7060, DOI: 10.1021/o1403019c table 1; compound 4k -----	60
A	WO 95/11235 A1 (UPJOHN CO [US]; NUGENT RICHARD ALLEN [US]; SCHLACHTER STEPHEN T [US]) 27 April 1995 (1995-04-27) example 6 -----	57

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9511235	A1	27-04-1995	
		AU 7798994 A	08-05-1995
		EP 0724573 A1	07-08-1996
		JP H09504010 A	22-04-1997
		WO 9511235 A1	27-04-1995

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.2

Claims Nos.: 58

In the compound claim 58 X is a "leaving group". It is impossible to know what the exact scope of a leaving group is in a compound claim and the definition leads to a lack of clarity (Art. 6 PCT). The Applicant should either define the said term in the light of the current application or else delete claim 58.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guidelines C-IV, 7.2), should the problems which led to the Article 17(2) PCT declaration be overcome.