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(54) Title: HETEROARYL COMPOUNDS AND USES THEREOF

(57) Abstract: The present invention provides compounds, pharmaceutically acceptable compositions thereof, and methods of using the same.



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/IB 18/52089

A. CLASSIFICATION OF SUBJECT MATTER
 IPC(8) - A61K 31/505, A61P 35/00, C07D 495/02 (2018.01)
 CPC - C07D 495/04, C07D 519/00

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)

See Search History Document

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

See Search History Document

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

See Search History Document

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2016/0332993 A1 (DANA FARBER CANCER INSTITUTE) 17 November 2016 (17.11.2016), entire document, especially: para [0004], Formula II; para [0006].	1-8
A	US 2017/0174713 A1 to Gilead Sciences, 22 June 2017 (22.06.2017): para [0077].	1-8
A	PubChem-CID-16722836, Create Date: 3 September 2007 (03.09.2007), pg 4, Fig.	1-8
A	PubChem-CID-28408238, Create Date: 28 May 2009 (28.05.2009), pg 4, Fig.	1-8
A	PubChem-CID-67518325, Create Date: 30 November 2012 (30.11.2012), pg 4, Fig.	1-8

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

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"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

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INTERNATIONAL SEARCH REPORT

International application No.

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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.:
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:

3. Claims Nos.: 9-15
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 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.