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(88) Date of publication of the international search report:

10 December 2009

(54) Title: HSP90 INHIBITORS OR MODULATORS FOR TREATMENT OR PREVENTION OF SUBSTANCE-RELATED DISORDERS

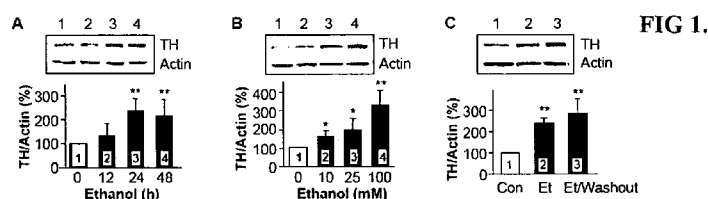


FIG. 1.

(57) Abstract: The present disclosure provides methods of treating or preventing a substance-related disorder using Hsp90 inhibitors, Hsp90 modulators, tyrosine hydroxylase modulators, and modulators that reduce the interaction between Hsp90 and tyrosine hydroxylase.

INTERNATIONAL SEARCH REPORT

International application No

PCT/US2009/000805

A. CLASSIFICATION OF SUBJECT MATTER

INV. A61K31/395 A61K31/4188 A61K31/4985 A61K31/5383 A61P25/30
A61P25/32

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)

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 practical, search terms used)

EPO-Internal, EMBASE, BIOSIS, 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 2008/005937 A (SLOAN KETTERING INST CANCER [US]; UNIV ROCKEFELLER [US]; CHIOSIS GABRI) 10 January 2008 (2008-01-10) cited in the application	1-6,9-18
A	page 9, paragraph 4 claims	7,8
A	ORTIZ JORDI ET AL: "Biochemical actions of chronic ethanol exposure in the mesolimbic dopamine system" SYNAPSE (NEW YORK), vol. 21, no. 4, 1995, pages 289-298, XP002539901 ISSN: 0887-4476 cited in the application the whole document	1-18



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 document 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)
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- *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

4 August 2009

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26/10/2009

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2009/000805

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.:
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:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers allsearchable 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 reportcovers 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.:

see annex

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.

INTERNATIONAL SEARCH REPORT

International Application No. PCT/US2009 /000805

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-18 (1-8,12-18 in part)

Use of an Hsp90 inhibitor or modulator for the treatment or prevention of a substance-related disorder, wherein the Hsp90 inhibitor or modulator is a compound of any one of formulae II to XXI, geldanamycin, 17-allylamino-17-demethoxygeldanamycin or 17-dimethylaminoethylamino-17-demethoxygeldanamycin

2. claims: 1-8,12-18 (all in part)

Use of an Hsp90 inhibitor or modulator for the treatment or prevention of a substance-related disorder, wherein the Hsp90 inhibitor or modulator is a compound other than a compound according to any one of formulae II to XXI, other than geldanamycin, other than 17-allylamino-17-demethoxygeldanamycin and other than 17-dimethylaminoethylamino-17-demethoxygeldanamycin

INTERNATIONAL SEARCH REPORT

information on patent family members

International application No

PCT/US2009/000805

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2008005937 A	10-01-2008	AU 2007269144 A1	10-01-2008
		CA 2656202 A1	10-01-2008
		EP 2034839 A2	18-03-2009