(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(10) International Publication Number WO 2011/034951 A3

(43) International Publication Date 24 March 2011 (24.03.2011)

(51) International Patent Classification: A61K 31/7036 (2006.01) A61K 31/352 (2006.01) A61P 43/00 (2006.01) A61K 31/7048 (2006.01) A61P 3/00 (2006.01) A61K 38/43 (2006.01) A61K 31/70 (2006.01)

(21) International Application Number:

PCT/US2010/048968

(22) International Filing Date:

15 September 2010 (15.09.2010)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/242,743 15 September 2009 (15.09.2009) US

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- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report (Art. 21(3))
- (88) Date of publication of the international search report: 13 October 2011



INTERNATIONAL SEARCH REPORT

PCT/US2010/048968

A. CLASSIFICATION OF SUBJECT MATTER

A61K 31/7036(2006.01)i, A61K 31/7048(2006.01)i, A61K 38/43(2006.01)i, A61K 31/70(2006.01)i, A61K 31/352(2006.01)i, A61P 43/00(2006.01)i, A61P 3/00(2006.01)i

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 31/7036; A61K 38/47

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) eKOMPASS(KIPO internal) & Keywords: Lysosomal storage disease, guanidinoglycoside, guanidinyled, aminoglycoside

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|---|-----------------------|
| Y | US 6537785 B1 (CANFIELD,W.M.) 25 March 2003 See claims; column 3, line 12-15; examples 26-28. | 1-27,31-40,42 |
| Y | ELSON-SCHWAB,L. et al., "Guanidinylated Neomycin Delievers Large, Bioactive Cargo into Cells through a Heparan sulfate-dependent Pathway", Journal of Biological Chemistry, 2007, Vol.282, No.18, pages 13585-13591 See abstract; the whole document; page 13589, right column, line 40-42. | 1-27,31-40,42 |
| Y | LUEDTKE,N.W. et al., "Cellular Uptake of Aminoglycosides, Guanidinoglycosides, and Poly-arginine" J. Am. Chem. Soc., 2003, Vol.125, pages 12374-12375 See abstract; the whole document. | 1-27,31-40,42 |
| A | DESNICK,R.J. "Enzyme Replacement and Enhancement Therapies for Lysosomal Disease" J. Inherit. Metab. Dis., 2004, Vol.27, pages 385-410 See the whole document. | 1-27,31-40,42 |
| A | WINCHESTER,B. et al., "The Molecular Basis of Lysosomal Storage Diseases and Their Treatment" Biochemical Society Transactions, 2000, Vol.28, part 2, pages 150-153 See the whole document. | 1-27,31-40,42 |

Sec Sec

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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- "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 mailing of the international search report

Date of the actual completion of the international search

27 JUNE 2011 (27.06.2011)

28 JUNE 2011 (28.06.2011)

Authorized officer

Name and mailing address of the ISA/KR



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US2010/048968

| 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: | | | | | |
| bec C si | ims Nos.: 28-30,41,43-45 ause they relate to subject matter not required to be searched by this Authority, namely: laims 28-30,41,43-45 pertain to methods for the treatment of the human or animal body by therapy, and thus relate to a abject matter which this International Searching Authority is not required, under Article 17(2)(a)(i) of the PCT and Rule 9.1(iv) of the Regulations under PCT, to search. | | | | |
| └ bec | ims Nos.: ause they relate to parts of the international application that do not comply with the prescribed requirements to such an ent that no meaningful international search can be carried out, specifically: | | | | |
| | aims Nos.: cause 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 Internat | ional Searching Authority found multiple inventions in this international application, as follows: | | | | |
| 1. | all required addtional search fees were timely paid by the applicant, this international search report covers all searchable | | | | |
| 2. As | ms. all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment any additional fee. | | | | |
| 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. | | | | |

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2010/048968

| Patent document cited in search report | Publication date | Patent family member(s) | Publication date |
|--|---------------------|-------------------------|---------------------|
| US 6537785 B1 | 25.03.2003 | None | |
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