

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
11 November 2021 (11.11.2021)



(10) International Publication Number
WO 2021/224144 A1

(51) International Patent Classification:

A61K 31/5415 (2006.01) A61P 31/14 (2006.01)
A61K 45/06 (2006.01)

(21) International Application Number:

PCT/EP2021/061480

(22) International Filing Date:

30 April 2021 (30.04.2021)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

2006659.3 05 May 2020 (05.05.2020) GB
2016955.3 26 October 2020 (26.10.2020) GB

(71) Applicant: **WISTA LABORATORIES LTD.** [SG/SG];
25 Bukit Batok Crescent, The Elitist #06-13, Singapore
658066 (SG).

(72) Inventor; and

(71) Applicant (for MG only): **WISCHIK, Claude Michel**
[GB/GB]; TauRx Therapeutics Ltd., 395 King Street, Ab-
erdeen Aberdeenshire AB24 5RP (GB).

(72) Inventors: **ARASTOO, Mohammad**; Institute of Medical
Sciences, University of Aberdeen, Aberdeen Aberdeenshire
AB25 2ZD (GB). **MAZANETZ, Michel Philip**; NovaData

Solutions Ltd., 15 Monreith Rd, Newlands Glasgow G43
2NX (GB).

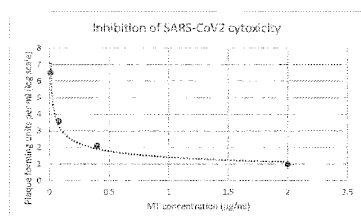
(74) Agent: **MEWBURN ELLIS LLP**; Aurora Building, Coun-
terslip, Bristol BS1 6BX (GB).

(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, BN, BR, BW, BY, BZ,
CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO,
DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN,
HR, HU, ID, IL, IN, IR, IS, IT, JO, JP, KE, KG, KH, KN,
KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD,
ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO,
NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW,
SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN,
TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW.

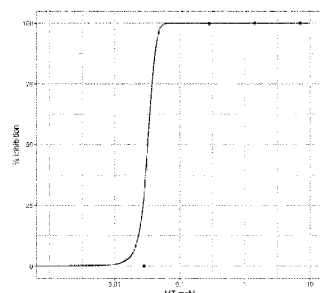
(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ,
UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ,
TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK,
EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV,
MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM,
TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
KM, ML, MR, NE, SN, TD, TG).

(54) Title: METHYLTHIONINIUM COMPOUNDS FOR USE IN THE TREATMENT OF COVID-19

Figure 1
A



B



(57) Abstract: The present invention provides methods of treating COVID-19 in
a subject using methylthioninium compounds.

WO 2021/224144 A1

[Continued on next page]

Declarations under Rule 4.17:

— *of inventorship (Rule 4.17(iv))*

Published:

— *with international search report (Art. 21(3))*