

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
14 November 2024 (14.11.2024)



(10) International Publication Number
WO 2024/232829 A1

(51) International Patent Classification:

C07D 487/04 (2006.01) A61K 31/407 (2006.01)
C07D 487/14 (2006.01) A61K 31/4353 (2006.01)
C07D 471/04 (2006.01) A61K 31/506 (2006.01)
C07D 471/14 (2006.01) A61P 31/14 (2006.01)

(21) International Application Number:

PCT/SG2024/050298

(22) International Filing Date:

08 May 2024 (08.05.2024)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

10202301271W 08 May 2023 (08.05.2023) SG

(71) Applicant: **AGENCY FOR SCIENCE, TECHNOLOGY AND RESEARCH** [SG/SG]; 1 Fusionopolis Way, #20-10 Connexis North Tower, Singapore 138632 (SG).

(72) Inventors: **SEE, Yi Yang**; c/o Experimental Drug Development Centre, Agency for Science, Technology and Research (A*STAR), 1 Fusionopolis Way, Connexis, North Tower, #14-01, Singapore 138670 (SG). **LOW, Choon Heng**; c/o Experimental Drug Development Centre, Agency for Science, Technology and Research (A*STAR), 1 Fusionopolis Way, Connexis, North Tower, #14-01, Singapore 138670 (SG). **TAN, Li Hong**; c/o Experimental Drug Development Centre, Agency for Science, Technology and Research (A*STAR), 1 Fusionopolis Way, Connexis, North Tower, #14-01, Singapore 138670 (SG). **VANKADARA, Subramanyam**; c/o Experimental Drug Development Centre, Agency for Science, Technology and Research (A*STAR), 1 Fusionopolis Way, Connexis, North Tower, #14-01, Singapore 138670 (SG). **TAN, Qian Wen**; c/o Experimental Drug Development Centre, Agency for Science, Technology and Research (A*STAR), 1 Fusionopolis Way, Connexis, North Tower, #14-01, Singapore 138670 (SG). **FOO, Klement Jihao**; c/o Experimental Drug Development Centre, Agency for Science, Technology and Research (A*STAR), 1 Fusionopolis Way, Connexis, North Tower, #14-01, Singapore 138670 (SG). **CHIA, Cheng San, Brian**; c/o Experimental Drug Development Centre, Agency for Science, Technology and Research

(A*STAR), 1 Fusionopolis Way, Connexis, North Tower, #14-01, Singapore 138670 (SG).

(74) Agent: **DAVIES COLLISON CAVE ASIA PTE. LTD.**; 10 Collyer Quay, #07-01, Ocean Financial Centre, Singapore 049315 (SG).

(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, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, MG, MK, MN, MU, 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, CV, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, 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, ME, 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).

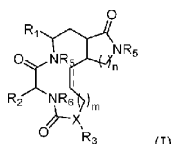
Declarations under Rule 4.17:

— of inventorship (Rule 4.17(iv))

Published:

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

(54) Title: 3CLPRO INHIBITORS AND METHODS THEREOF



(I)

(57) Abstract: The present disclosure concerns a compound of Formula (I) or a salt, solvate, stereoisomer or prodrug thereof as a 3CLpro inhibitors. The compounds may be used for treating a coronavirus related disease or condition. (I)

WO 2024/232829 A1