

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
27 February 2025 (27.02.2025)



(10) International Publication Number
WO 2025/042337 A1

(51) International Patent Classification:

C07D 487/04 (2006.01) *A61K 31/5025* (2006.01)
C07D 471/04 (2006.01) *A61K 31/437* (2006.01)
A61K 31/519 (2006.01) *A61P 35/02* (2006.01)

(21) International Application Number:

PCT/SG2024/050499

(22) International Filing Date:

06 August 2024 (06.08.2024)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

10202302395W 24 August 2023 (24.08.2023) SG

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

(72) Inventors: **LIM, Hong Hwa**; C/o Agency For Science, Technology And Research (a*star), 1 Fusionopolis Way #20-10, Connexis North Tower, Singapore 138632 (SG). **KANNAN, Srinivasaraghavan**; c/o AGENCY FOR SCIENCE, TECHNOLOGY AND RESEARCH (A*STAR), 1 Fusionopolis Way #20-10, Connexis North Tower,

er, Singapore 138632 (SG). **VERMA, Chandra Shekhar**; c/o AGENCY FOR SCIENCE, TECHNOLOGY AND RESEARCH (A*STAR), 1 Fusionopolis Way #20-10, Connexis North Tower, Singapore 138632 (SG). **NG, Vanessa Shi Qin**; c/o AGENCY FOR SCIENCE, TECHNOLOGY AND RESEARCH (A*STAR), 1 Fusionopolis Way #20-10, Connexis North Tower, Singapore 138632 (SG). **SURANA, Uttam C**; c/o AGENCY FOR SCIENCE, TECHNOLOGY AND RESEARCH (A*STAR), 1 Fusionopolis Way #20-10, Connexis North Tower, Singapore 138632 (SG). **TAN, Soo Yong**; c/o AGENCY FOR SCIENCE, TECHNOLOGY AND RESEARCH (A*STAR), 1 Fusionopolis Way #20-10, Connexis North Tower, Singapore 138632 (SG). **RAMADASS, Venkataramanan**; c/o AGENCY FOR SCIENCE, TECHNOLOGY AND RESEARCH (A*STAR), 1 Fusionopolis Way #20-10, Connexis North Tower, Singapore 138632 (SG). **LAKSHMANAN, Manikandan**; c/o AGENCY FOR SCIENCE, TECHNOLOGY AND RESEARCH (A*STAR), 1 Fusionopolis Way #20-10, Connexis North Tower, Singapore 138632 (SG).

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

(54) Title: TYROSINE KINASE INHIBITORS AND METHODS THEREOF

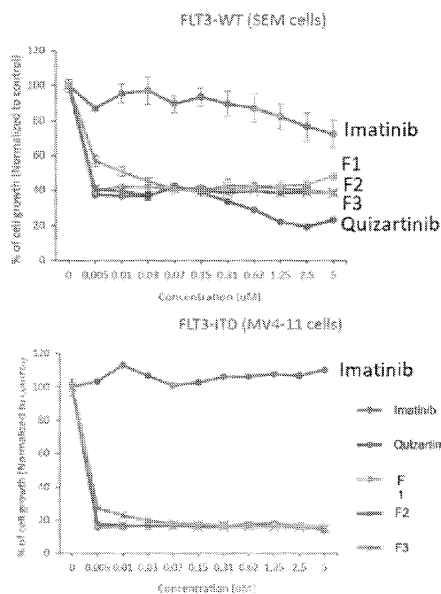


Figure 2

(57) Abstract: The present disclosure provides a method of treating acute myeloid leukemia in a 5 subject in need thereof, comprising administering a therapeutically effective amount of a compound of Formula (I) or a pharmaceutically acceptable salt, solvate or prodrug thereof to the subject. The present disclosure also provides a compound of Formula (II) or a salt, solvate or prodrug thereof. 10

[Continued on next page]

(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).

Published:

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