

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
03 April 2025 (03.04.2025)



(10) International Publication Number
WO 2025/072796 A1

(51) International Patent Classification:

A61K 31/5377 (2006.01) A61P 35/00 (2006.01)
A61K 9/20 (2006.01) A61P 37/02 (2006.01)
A61P 25/28 (2006.01)

(21) International Application Number:

PCT/US2024/049020

(22) International Filing Date:

27 September 2024 (27.09.2024)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/585,862 27 September 2023 (27.09.2023) US

(71) Applicant: TOTUS MEDICINES INC. [US/US]; 1480
64th Street, Emeryville, California 94608 (US).

(72) Inventors: LU, Yuelie; 3606 Weston Manor Lane, Hous-
ton, Texas 77055 (US). QIU, Yihong; 1634 Lake Charles
Drive, Vernon Hills, Illinois 60061 (US).

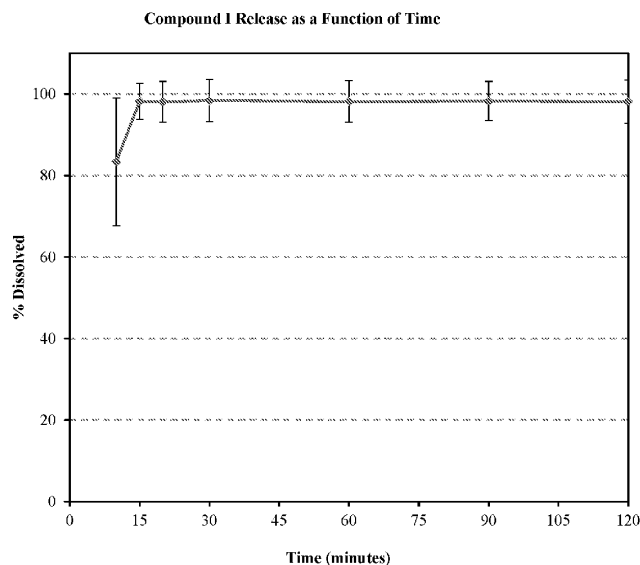
(74) Agent: CHRISTIANSEN, II, William T. et al.; Cooley
LLP, 1299 Pennsylvania Ave. NW, Suite 700, Washington,
District of Columbia 20004 (US).

(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,

(54) Title: PHARMACEUTICAL COMPOSITIONS AND METHODS OF USE THEREOF

FIGURE 4



(57) Abstract: The present invention provides methods and compositions for treating cancer via use of a compound that forms a covalent bond with a kinase or pseudokinase, or a pharmaceutically acceptable salt thereof, and at least one pharmaceutical excipient.

[Continued on next page]

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:

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

Published:

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