

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
17 April 2025 (17.04.2025)



(10) International Publication Number
WO 2025/081045 A1

(51) International Patent Classification:

C07D 471/04 (2006.01) A61K 31/437 (2006.01)
A61P 35/00 (2006.01) A61K 47/00 (2006.01)

(21) International Application Number:

PCT/US2024/051051

(22) International Filing Date:

11 October 2024 (11.10.2024)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/590,256	13 October 2023 (13.10.2023)	US
63/562,578	07 March 2024 (07.03.2024)	US
63/686,523	23 August 2024 (23.08.2024)	US

(71) Applicant: **TERREMOTO BIOSCIENCES, INC.**

[US/US]; 230 E. Grand Ave., Suite 200, South San Francisco, California 94080 (US).

(72) Inventors: **CHU, Hang**; 230 E. Grand Ave., Suite 200,

South San Francisco, California 94080 (US). **REISBERG, Solomon H.**; 230 E. Grand Ave., Suite 200, South San Francisco, California 94080 (US). **ZAJDLIK, Adam**; 230

E. Grand Ave., Suite 200, South San Francisco, California 94080 (US). **YANG, Kin S.**; 230 E. Grand Ave., Suite 200, South San Francisco, California 94080 (US). **CARELLI, Jordan D.**; 230 E. Grand Ave., Suite 200, South San Francisco, California 94080 (US). **THOMPSON, Peter A.**; 230 E. Grand Ave., Suite 200, South San Francisco, California 94080 (US).

(74) Agent: **PERLA, Luis** et al.; WILSON SONSINI GOODRICH & ROSATI, 650 Page Mill Road, Palo Alto, California 94304 (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.

(54) Title: CYSTEINE COVALENT MODIFIERS OF AKT1 AND USES THEREOF

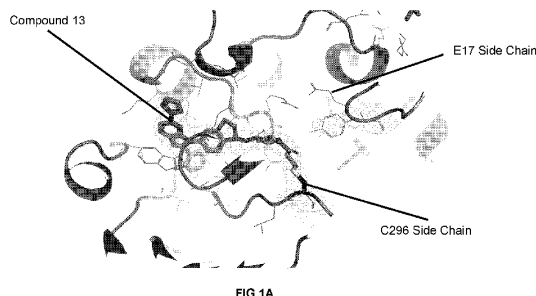
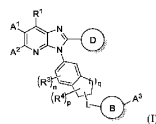


FIG 1A

(57) Abstract: Provided herein are covalent modifiers of AKT 1 of Formula (I) and pharmaceutical compositions thereof. In some embodiments, the present disclosure provides methods of modulating AKT1 using a compound or salt of Formula (I) and pharmaceutical compositions thereof.

[Continued on next page]

(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))*
— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*