

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
12 October 2023 (12.10.2023)



(10) International Publication Number
WO 2023/196875 A1

(51) International Patent Classification:

C07D 471/22 (2006.01) C07D 498/22 (2006.01)
C07D 491/22 (2006.01) A61K 31/55 (2006.01)
C07D 497/22 (2006.01) A61P 31/18 (2006.01)

(21) International Application Number:

PCT/US2023/065401

(22) International Filing Date:

05 April 2023 (05.04.2023)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/328,061 06 April 2022 (06.04.2022) US
63/476,873 22 December 2022 (22.12.2022) US

(71) Applicant: GILEAD SCIENCES, INC. [US/US]; 333
Lakeside Drive, Foster City, California 94404 (US).

(72) Inventors: CHU, Hang; 714 Comet Drive, Foster City,
California 94404 (US). GONZALEZ BUENROSTRO,
Ana Z.; c/o Gilead Sciences, Inc., 333 Lakeside Drive,
Foster City, California 94404 (US). HAN, Xiaochun; c/
o Gilead Sciences, Inc., 333 Lakeside Drive, Foster City,
California 94404 (US). HURTLEY, Anna E.; c/o Gilead
Sciences, Inc., 333 Lakeside Drive, Foster City, California
94404 (US). JIANG, Lan; c/o Gilead Sciences, Inc., 333
Lakeside Drive, Foster City, California 94404 (US). LI, Ji-
ayao; c/o Gilead Sciences, Inc., 333 Lakeside Drive, Fos-
ter City, California 94404 (US). SCHWARZWALDER,
Gregg M.; c/o Gilead Sciences, Inc., 333 Lakeside Drive,
Foster City, California 94404 (US). SHIVAKUMAR, De-
vleena M.; 476 O' Connor Street, Menlo Park, California
94025 (US). VON BARGEN, Matthew J.; 530 Shannon
Way, Apartment 4213, Redwood City, California 94065
(US). WU, Qiaoyin; c/o Gilead Sciences, Inc., 333 Lake-
side Drive, Foster City, California 94404 (US). YANG,
Hong; c/o Gilead Sciences, Inc., 333 Lakeside Drive, Foster
City, California 94404 (US).

(74) Agent: BAJPAI, Reena et al.; Gilead Sciences, Inc., 333
Lakeside Drive, Foster City, California 94404 (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,
SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, KM, ML, MR, NE, SN, TD, TG).

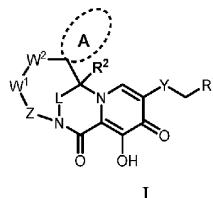
Declarations under Rule 4.17:

- 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))

(54) Title: BRIDGED TRICYCLIC CARBAMOYLPYRIDONE COMPOUNDS AND USES THEREOF



I

(57) Abstract: The present disclosure relates generally to compounds, of Formula I: Also disclosed are pharmaceutical compositions comprising said compounds and methods of making said compounds. The compounds of the disclosure are useful in treating or preventing human immunodeficiency virus (HIV) infection.



WO 2023/196875 A1