

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
10 March 2022 (10.03.2022)



(10) International Publication Number
WO 2022/051589 A1

(51) International Patent Classification:
C07D 473/12 (2006.01) *A61P 1/12* (2006.01)
A61K 31/522 (2006.01)

(21) International Application Number:
PCT/US2021/049011

(22) International Filing Date:
03 September 2021 (03.09.2021)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
63/075,065 04 September 2020 (04.09.2020) US

(71) Applicant: **TEON THERAPEUTICS, INC.** [US/US];
555 Twin Dolphin Dr., Suite 120, Redwood City, California
94065 (US).

(72) Inventors: **LIU, Jiwen**; c/o Teon Therapeutics, Inc., 555
Twin Dolphin Dr., Suite 120, Redwood City, California
94065 (US). **OSTOVIC, Drazen**; c/o Teon Therapeutics,
Inc., 555 Twin Dolphin Dr., Suite 120, Redwood City, Cal-
ifornia 94065 (US). **KARABORNI, Sami**; c/o Teon Ther-

apeutics, Inc., 555 Twin Dolphin Dr., Suite 120, Redwood
City, California 94065 (US).

(74) Agent: **TANNER, Lorna L.** et al.; Sheppard Mullin
Richter & Hampton LLP, 650 Town Center Drive, 10th
Floor, Costa Mesa, California 92626-1993 (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, CZ, DE, DJ, DK, DM, DO,
DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN,
HR, HU, ID, IL, IN, IR, IS, IT, JO, JP, KE, KG, KH, KN,
KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD,
ME, MG, MK, MN, 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, GH,
GM, KE, LR, LS, MW, MZ, NA, RW, 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,

(54) Title: COCRYSTALS OF AN ADENOSINE A_{2B} RECEPTOR ANTAGONIST

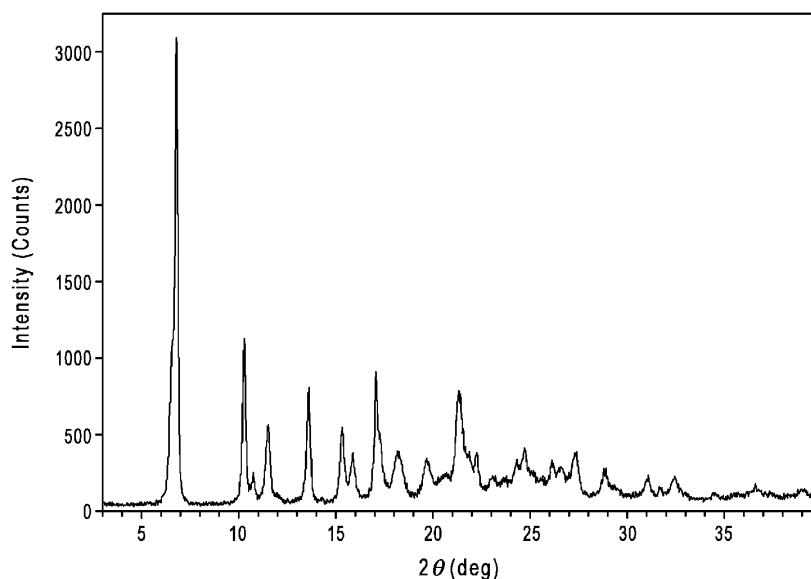


FIG. 1

(57) Abstract: Cocrystals of an adenosine A_{2B} receptor antagonist, 3-ethyl-1-propyl-8-(1-(3-(trifluoromethyl)benzyl)-1H-pyrazol-4-yl)-3,7-dihydro-1H-purine-2,6-dione, methods of preparing the cocrystals, pharmaceutical compositions of the cocrystals, and uses of the cocrystals are disclosed.

[Continued on next page]

MC, 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 the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

Published:

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