

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
09 September 2022 (09.09.2022)



(10) International Publication Number
WO 2022/187178 A1

(51) International Patent Classification:
C07D 401/14 (2006.01) A61K 31/5513 (2006.01)
A61P 31/04 (2006.01)

(21) International Application Number:
PCT/US2022/018243

(22) International Filing Date:
01 March 2022 (01.03.2022)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
63/155,651 02 March 2021 (02.03.2021) US

(71) Applicant: RECURSION PHARMACEUTICALS,
INC. [US/US]; 41 S. Rio Grande, Salt Lake City, Utah
84101 (US).

(72) Inventors: GENIN, Michael James; 41 S. Rio Grande,
Salt Lake City, Utah 84101 (US). CARPENTER, Joseph;
41 S. Rio Grande, Salt Lake City, Utah 84101 (US).
BROOKS, Carl; 41 S. Rio Grande, Salt Lake City, Utah
84101 (US).

(74) Agent: ECHOLS, Kelly A. et al.; Armstrong Teasdale
LLP, 7700 Forsyth Boulevard, Suite 1800, St. Louis, Mis-
souri 63105 (US).

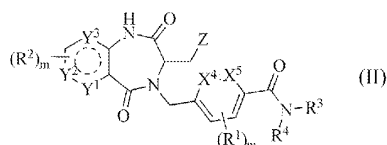
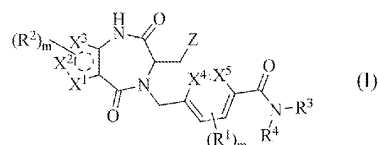
(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ,
CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO,
DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN,
HR, HU, ID, IL, IN, IR, IS, IT, JM, 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,
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).

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

(54) Title: DIAZEPINE DERIVATIVES USEFUL IN THE TREATMENT OF CLOSTRIDIUM DIFFICILE



(57) Abstract: The present disclosure describes compounds of Formula (I) and Formula (II) and stereoisomers, tautomers, and pharmaceutically acceptable salts or solvates thereof, wherein all of the variables are as defined herein. This disclosure also relates to pharmaceutical compositions comprising these compounds and methods of treating a disease, disorder, or condition by using the compounds and pharmaceutical compositions.

WO 2022/187178 A1