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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
14 March 2024 (14.03.2024)

WIPO | PCT

(10) International Publication Number
WO 2024/052431 A1

(51) International Patent Classification:
A61K 47/64 (2017.01) *A61P 35/00* (2006.01)

(21) International Application Number:
PCT/EP2023/074507

(22) International Filing Date:
06 September 2023 (06.09.2023)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
63/374,841 07 September 2022 (07.09.2022) US

(71) Applicant: **3B PHARMACEUTICALS GMBH** [DE/DE]; Magnusstrasse 11, 12489 Berlin (DE).

(72) Inventors: **BREDENBECK, Anne**; Kavalierstr. 20, 13187 Berlin (DE). **HAASE, Christian**; Erich-Weinert-Str. 136, 10409 Berlin (DE). **ZBORALSKI, Dirk**; Gutzkowstr. 7, 10827 Berlin (DE). **SCHNEIDER, Eberhard**; Kunersdorfer Straße 14, 14552 Michendorf OT Wildenbruch (DE). **WILKENING, Ina**; An der Wuhlheide 228, 12459 Berlin (DE). **UNGEWISS, Jan**; Rhodeländerweg 46, 12355 Berlin (DE). **WAHSNER, Jessica**; Provesthöhe 15, 45257 Essen (DE). **WEBER, Judith**; Ossastraße 44, 12045 Berlin (DE). **PASCHKE, Matthias**; Opitzstraße 3, 12163 Berlin (DE). **AL-OBAIDI, Naowras**; Hauptstraße 6L, 10317 Berlin (DE).

(74) Agent: **BOHMANN, Armin K.**; Nymphenburger Str. 1, 80335 München (DE).

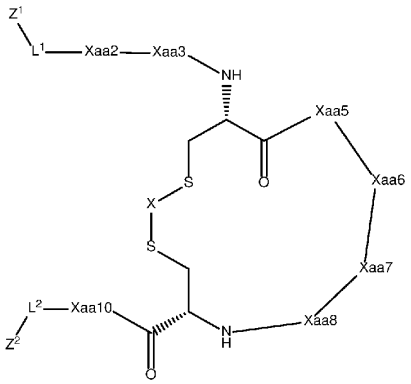
(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ,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

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))*

(54) Title: PROSTATE SPECIFIC MEMBRANE ANTIGEN (PSMA) LIGANDS AND USE THEREOF

(57) Abstract: The present disclosure is related to a compound of Formula (I)



(I)

WO 2024/052431 A1