

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
30 January 2025 (30.01.2025)



(10) International Publication Number
WO 2025/024822 A3

(51) International Patent Classification:

A61K 31/395 (2006.01) A61K 31/4184 (2006.01)
A61K 31/13 (2006.01) A61K 31/33 (2006.01)

(21) International Application Number:

PCT/US2024/039923

(22) International Filing Date:

26 July 2024 (26.07.2024)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/516,061 27 July 2023 (27.07.2023) US

(71) Applicant: **PLEXIUM, INC.** [US/US]; 9330 Scranton Road, Suite 500, San Diego, California 92121 (US).

(72) Inventors: **YANG, Pengyu**; c/o Plexium, Inc., 9330 Scranton Road, Suite 500, San Diego, California 92121 (US). **BAILEY, Simon**; c/o Plexium, Inc., 9330 Scranton Road, Suite 500, San Diego, California 92121 (US). **FREE-MAN-COOK, Kevin D.**; c/o Plexium, Inc., 9330 Scranton Road, Suite 500, San Diego, California 92121 (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, 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))
- 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))

(88) Date of publication of the international search report:

06 March 2025 (06.03.2025)

(54) Title: PROCESSES FOR MAKING ARYL COMPOUNDS THAT MODULATE IKZF2

(57) Abstract: The present disclosure relates generally to processes for preparing compounds that bind to cereblon, thereby modulating cereblon activity, and the synthetic intermediates prepared thereby.

WO 2025/024822 A3