

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
04 May 2023 (04.05.2023)



(10) International Publication Number
WO 2023/072197 A1

(51) International Patent Classification:

C07D 401/06 (2006.01) A61P 27/00 (2006.01)
A61K 31/454 (2006.01)

(21) International Application Number:

PCT/CN2022/127975

(22) International Filing Date:

27 October 2022 (27.10.2022)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/263,108	27 October 2021 (27.10.2021)	US
63/268,655	28 February 2022 (28.02.2022)	US
63/362,916	13 April 2022 (13.04.2022)	US
63/365,029	20 May 2022 (20.05.2022)	US
63/366,101	09 June 2022 (09.06.2022)	US

(71) Applicants: **HANSOHO BIO LLC** [US/US]; Hansoh Bio, 9900 Medical Center Drive, Ste 200, Rockville, Maryland 20850 (US). **SHANGHAI HANSOHO BIOMEDICAL CO., LTD.** [CN/CN]; Building 2, No.3728 Jinke Road, Zhangjiang Hi-Tech Park, Shanghai 201203 (CN). **JIANGSU HANSOHO PHARMACEUTICAL GROUP CO., LTD.** [CN/CN]; Economic and Technological Development Zone, Lianyungang, Jiangsu 222047 (CN).

(72) Inventors: **ZHU, Hugh Y.**; Hansoh Bio, 9900 Medical Center Drive, Ste 200, Rockville, Maryland 20850 (US). **KHANNA, Avinash**; Hansoh Bio, 9900 Medical Center Drive, Ste 200, Rockville, Maryland 20850 (US). **KIER, Matthew**; Hansoh Bio, 9900 Medical Center Drive, Ste 200, Rockville, Maryland 20850 (US). **DE MEESE, Lisa A.**; Hansoh Bio, 9900 Medical Center Drive, Ste 200, Rockville, Maryland 20850 (US). **ZHOU, Wei**; Hansoh Bio, 9900 Medical Center Drive, Ste 200, Rockville, Maryland 20850 (US).

(74) Agent: **GE CHENG & CO., LTD.**; CHENG, David W., Level 10, Tower E3, The Towers, Oriental Plaza, No.1, East Chang An Avenue, Dongcheng District, Beijing 100738 (CN).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

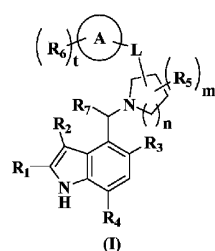
AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, 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, 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))

(54) Title: PIPERIDINYL INDOLE DERIVATIVES, PREPARATION METHODS AND MEDICINAL USES THEREOF



(57) Abstract: Compounds of formula (I) as piperidinyl indole derivatives, the preparation method thereof, pharmaceutical compositions comprising the compounds, and the pharmaceutical uses for the treatment a disease or disorder mediated by complement activation.

WO 2023/072197 A1