



(51) International Patent Classification:

A61K 31/13 (2006.01) C07D 409/02 (2006.01)
A61K 31/095 (2006.01) A61K 31/33 (2006.01)
C07D 333/02 (2006.01) C07D 409/04 (2006.01)
C07D 333/26 (2006.01)

(21) International Application Number:

PCT/US2024/032570

(22) International Filing Date:

05 June 2024 (05.06.2024)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/471,207 05 June 2023 (05.06.2023) US

(71) Applicant: **CELLORAM INC.** [US/US]; 11000, Cedar Ave. 100F, #23, Cleveland, Ohio 44106 (US).

(72) Inventors: **LEVI, Liraz**; c/o Celloram Inc., 11000, Cedar Ave. 100F, #23, Cleveland, Ohio 44106 (US). **PAREEK, Tej**; c/o Celloram Inc., 11000, Cedar Ave. 100F, #23, Cleveland, Ohio 44106 (US). **MEYERS, Elizabeth**; c/o Celloram Inc., 11000, Cedar Ave. 100F, #23, Cleveland, Ohio 44106 (US). **LIM, Seunghwan**; c/o Celloram Inc., 11000, Cedar Ave. 100F, #23, Cleveland, Ohio 44106 (US). **GREEN-LEE, William J.**; c/o Celloram Inc., 11000, Cedar Ave. 100F, #23, Cleveland, Ohio 44106 (US). **KIM, Seong-Jin**; c/o Celloram Inc., 11000, Cedar Ave. 100F, #23, Cleveland, Ohio 44106 (US).

(74) Agent: **WHITING, Adam K.**; FisherBroyles, LLP, 4100 Redwood Rd. 20A-203, Oakland, California 94619 (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).

Published:

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

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

17 April 2025 (17.04.2025)

(54) Title: INHIBITORS OF FATTY ACID BINDING PROTEINS (FABPS), METHODS OF USE AND METHODS OF MAKING

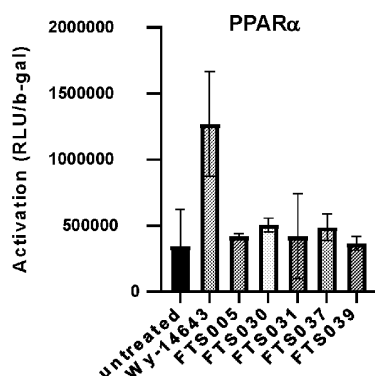


FIG. 1A

(57) Abstract: Disclosed herein are FABP inhibitor compounds and their use in pharmaceutical compositions for treating diseases including cancers that highly express any of these FABPs, in particular triple-negative breast cancer (TNBC) and other inflammation-induced diseases including cardiovascular disease, obesity or an obesity-related disorders, diabetes, dyslipidemia, impaired glucose tolerance or impaired fasting glucose, vitiligo, psoriasis, autoimmune disorders, pain and dementia. Also disclosed herein are methods for preparing the disclosed compounds.