

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
23 November 2023 (23.11.2023)



(10) International Publication Number
WO 2023/225373 A1

(51) International Patent Classification:

A61K 31/407 (2006.01) A61P 17/00 (2006.01)
A61K 47/10 (2017.01)

(21) International Application Number:

PCT/US2023/023014

(22) International Filing Date:

19 May 2023 (19.05.2023)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/344,422	20 May 2022 (20.05.2022)	US
63/399,946	22 August 2022 (22.08.2022)	US
63/489,697	10 March 2023 (10.03.2023)	US

(71) Applicant: **DERMBIONT, INC.** [US/US]; 451 D. Street, Suite 908, Boston, Massachusetts 02210 (US).

(72) Inventors: **TAYLOR, Emma**; 451 D. Street, Suite 908, Boston, Massachusetts 02210 (US). **BEUTNER, Karl**; 451 D. Street, Suite 908, Boston, Massachusetts 02210 (US). **PHILLIPS, Christopher**; 451 D. Street, Suite 908, Boston, Massachusetts 02210 (US). **DE SOUZA, Mark**; 451 D.

Street, Suite 908, Boston, Massachusetts 02210 (US). **PAN-DRAPRAGADA, Ravi Kumar**; 451 D. Street, Suite 908, Boston, Massachusetts 02210 (US). **URRUTIA, Vane-sa Alexandra Cofré**; 451 D. Street, Suite 908, Boston, Massachusetts 02210 (US). **BRADY, Brendan Philip**; 451 D. Street, Suite 908, Boston, Massachusetts 02210 (US). **EVANS, Charles Rodney Greenaway**; 451 D. Street, Suite 908, Boston, Massachusetts 02210 (US).

(74) Agent: **UMPIERRE, Alicia** et al.; Wilson Sonsini, 650 Page Mill Road, Palo Alto, California 94304 (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.

(54) Title: COMPOSITIONS AND FORMULATIONS FOR USE OF A PK INHIBITOR FOR THE PREVENTION, TREATMENT, AND IMPROVEMENT OF SKIN DISEASES, CONDITIONS, AND DISORDERS

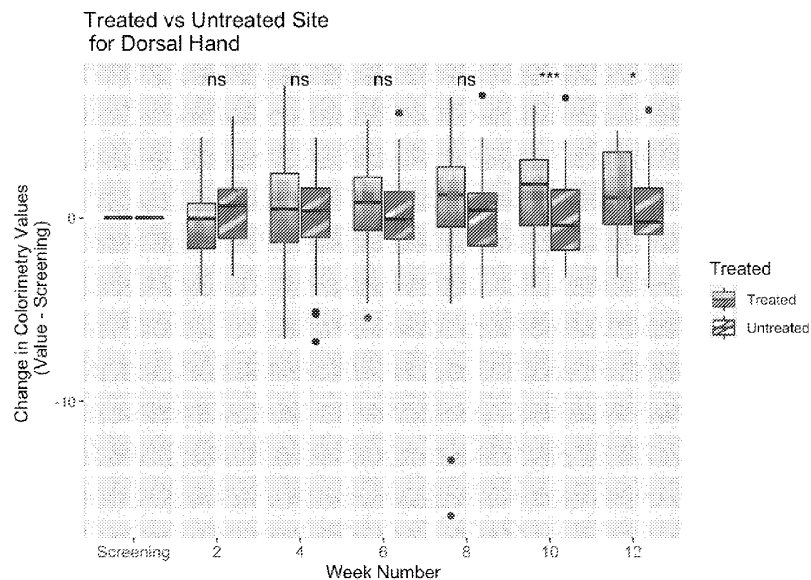


FIG. 5A

(57) Abstract: Provided herein are compositions comprising ruboxistaurin free base and its salts thereof and methods of use for treating conditions of the skin.

[Continued on next page]

(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))*

Published:

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