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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
30 August 2007 (30.08.2007)

PCT

(10) International Publication Number
WO 2007/097765 A1

(51) International Patent Classification:
A61K 31/015 (2006.01)

(21) International Application Number:
PCT/US2006/015661

(22) International Filing Date: 26 April 2006 (26.04.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
11/361,589 24 February 2006 (24.02.2006) US

(71) Applicant *(for all designated States except US)*: **BLUE BLOOD BIOTECH CORP.**; 4F, No. 2771, Sec. 4, Bada Road, Taipei, 10565 (TW).

(71) Applicant *(for LC only)*: **CHENG, Kent** [US/US]; 551 Fifth Avenue, New York, New York 10176 (US).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **CHIANG, Chuan-Chi**; 3F., No. 55, Cian St., Shihlin District, Taipei City 111 (TW). **SU, Hui-Pin**; 13F., No. 567, Mingshui Rd., Zhongshan District, Taipei City 104 (TW). **WU, Hua-Lin**; 1 University Road, Tainan, 701 (TW). **SHI, Guey-Yueh**; 1 University Road, Tainan, 701 (TW).

(74) Agent: **CHENG, Kent**; COHEN PONTANI LIEBERMAN & PAVANE, 551 Fifth Avenue, New York, New York 10176 (US).

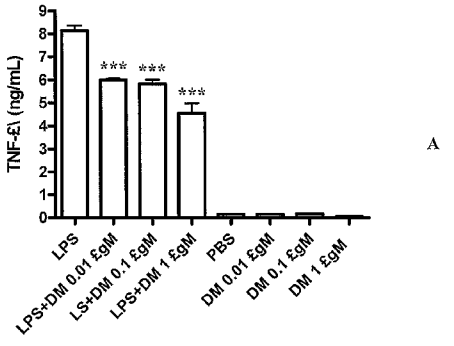
(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

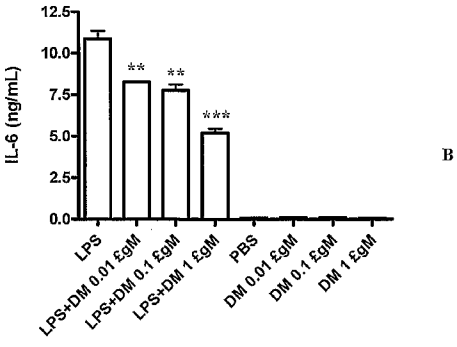
Published:
— *with international search report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) **Title:** METHODS AND COMPOSITIONS FOR BACTERICIDE, BACTERIOSTATIC AND ANTI-INFLAMMATION



A



B

(57) **Abstract:** The present invention relates to a method for providing bactericide or bacteriostatic, especially for treating disease due to bacterial infection. The method comprising administering a patient in need of such treatment a therapeutically effective amount of a compound of dextromethorphan or naloxone or a pharmaceutically acceptable salt or an analog thereof . The compound is applied to skin or mucosal surface of the patient. The invention also relates to a method of treating inflammation caused by suppressing secretion of TNF-α, IL- β, or MCP-I from macrophage comprising administering a patient in need of such treatment a therapeutically effective amount of NADPH oxidase inhibitor.

WO 2007/097765 A1