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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
10 November 2005 (10.11.2005)

PCT

(10) International Publication Number
WO 2005/105073 A1

(51) International Patent Classification[7]: A61K 31/192

(21) International Application Number:
PCT/US2005/014545

(22) International Filing Date: 27 April 2005 (27.04.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/565,527 27 April 2004 (27.04.2004) US

(71) Applicant *(for all designated States except US)*: **MEDICINOVA, INC.** [US/US]; 4350 La Jolla Village Drive, Suite 950, San Diego, CA 92122 (US).

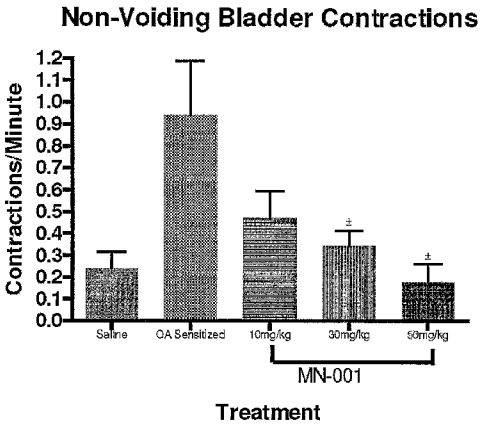
(72) Inventors; and
(75) Inventors/Applicants *(for US only)*: **SMITH, Charles** [US/US]; P.O. Box 9814, Rancho Santa Fe, CA 92067 (US). **LOCKE, Kenneth, Walter** [US/US]; 1257 Belleflower Road, Carlsbad, CA 92009 (US). **KIYOIZUMI, Taka** [JP/US]; 7231 Holly Leaf Court, San Diego, CA 92127 (US).

(74) Agents: **VILLACORTA, Gilberto, M.** et al.; Katten Muchin Zavis Rosenman, 1025 Thomas Jefferson Street, NW, East Lobby, Suite 700, Washington, DC 20007-5201 (US).

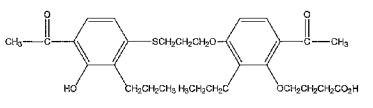
(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, 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.

[Continued on next page]

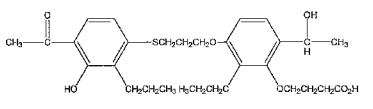
(54) Title: PHENOXYALKYCARBOXYLIC ACID DERIVATIVES IN THE TREATMENT OF INFLAMMATORY DISEASES



(57) Abstract: A method of treating interstitial cystitis, irritable bowel syndrome, ulcerative colitis, and other inflammatory conditions, comprising: administering to a patient in need thereof an effective amount of a compound selected from compound 1, its metabolite 2 and pharmaceutically acceptable salts or prodrugs thereof.



1



2

WO 2005/105073 A1

(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, 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*

— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

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.