

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
7 May 2009 (07.05.2009)

PCT

(10) International Publication Number
WO 2009/057938 A3

(51) International Patent Classification:
C07D 309/36 (2006.01)

(21) International Application Number:
PCT/KR2008/006371

(22) International Filing Date: 29 October 2008 (29.10.2008)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10-2007-0111075
1 November 2007 (01.11.2007) KR

(71) Applicant (for all designated States except US): **HANMI PHARM. CO., LTD.** [KR/KR]; #893-5, Hajeo-ri, Paltan-myeon, Hwaseong-si, Gyeonggi-do 445-910 (KR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **YUN, Sang Min** [KR/KR]; Mujigaemaeul Geumgang Apt. 1103-1001, #213, Gumi-dong, Bundang-gu, Seongnam-si, Gyeonggi-do 463-500 (KR). **MOON, Young Ho** [KR/KR]; Hwanggolmaeul Jugong Apt. 146-1203, Youngtong-dong, Paldal-gu, Suwon-si, Gyeonggi-do 442-470 (KR). **CHANG, Young-Kil** [KR/KR]; Lake Palace 121-1301, #44, Jamsil-dong, Songpa-gu, Seoul 138-700 (KR). **HONG, Dong Jin** [KR/KR]; Segyeong Apt. 101-1208, #578-1, Yeonsu-3-dong, Yeonsu-gu, Incheon 406-815 (KR). **CHANG, Ji-Yeon** [KR/KR]; Muhak Apt. 101-605, #1531-19, Bongchun-dong-Gwanak-gu, Seoul 151-050 (KR). **LEE, Moon Sub** [KR/KR]; Gyeongnam Honorsville 2619-602, Sang-dong, Wonmi-gu, Bucheon-si, Gyeonggi-do 420-760 (KR). **YOO, Jaeho** [KR/KR]; Jugong Apt. 305-302, Junggae

4-dong, Nowon-gu, Seoul 139-793 (KR). **KIM, Ji Sook** [KR/KR]; Samhan Apt. 104-512, #8-1, Hongmoon-ri, Yeoju-eup, Yeoju-gun, Gyeonggi-do 469-806 (KR). **KIM, Cheol Kyung** [KR/KR]; Sinnamusil Sinwon Apt. 642-602, #965-2, Youngtong-dong, Youngtong-gu, Suwon-si, Gyeonggi-do 443-811 (KR).

(74) Agents: **JANG, Seongku** et al.; 19th Fl., Trust Tower, #275-7, Yangjae-dong, Seocho-ku, Seoul 137-130 (KR).

(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, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, 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, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, 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

(88) Date of publication of the international search report:
18 June 2009

(54) Title: METHOD OF PREPARING (6R)-3-HEXYL-4-HYDROXY-6-UNDECYL-5,6-DIHYDROPYRAN-2-ONE, AND INTERMEDIATE USED IN THE METHOD

(57) Abstract: Provided is a method of preparing a (6R)-3-hexyl-4-hydroxy-6-undecyl-5,6-dihydropyran-2-one, and a (5R)-2-hexyl-5-hydroxy-3-iminohexadecanoate derivative used in said method as an intermediate.

WO 2009/057938 A3