

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
9 February 2006 (09.02.2006)

PCT

(10) International Publication Number
WO 2006/014012 A2

(51) International Patent Classification:

C07D 295/192 (2006.01) C07D 211/58 (2006.01)
C07D 317/58 (2006.01) C07D 213/75 (2006.01)
C07D 211/46 (2006.01)

(21) International Application Number:

PCT/JP2005/014611

(22) International Filing Date: 3 August 2005 (03.08.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

2004-230092 6 August 2004 (06.08.2004) JP
2005-090149 25 March 2005 (25.03.2005) JP

(71) Applicant (for all designated States except US): OTSUKA PHARMACEUTICAL CO., LTD. [JP/JP]; 2-9, Kanda-Tsukasacho, Chiyoda-ku, Tokyo, 1018535 (JP).

(72) Inventors; and

(75) Inventors/Applicants (for US only): FUKUSHIMA, Tae [JP/JP]; 4-28-401, Joutouchi 2-chome, Tokushima-shi, Tokushima, 7700862 (JP). MATSUMURA, Shuji [JP/JP]; La Soreado 201, 191-2, Tainohama aza Kawakubo, Kitajimacho, Itano-gun, Tokushima, 7710204 (JP). TAKE-MURA, Noriaki [JP/JP]; 511-1, Enokise, Kawauchicho, Tokushima-shi, Tokushima, 7710144 (JP). SATOU, Hideaki [JP/JP]; 199-1, Okuwajima aza Ebisuyama, Muiyacho, Naruto-shi, Tokushima, 7720011 (JP). ITO, Nobuaki [JP/JP]; La Faure3 508, 40-1, Kanaoka, Kawauchicho, Tokushima-shi, Tokushima, 7710125 (JP). SHITSUTA, Takuya [JP/JP]; Serebu Akebono 303, 2-5, Akebonoichijo 6-chome, Asahikawa-shi, Hokkaido, 0700061 (JP). TSUTSUI, Hironori [JP/JP]; 51-64, Tainohama aza Nishinosu, Kitajimacho, Itano-gun, Tokushima, 7710204 (JP). TANAKA, Michinori [JP/JP]; 10-2, Kitashirakawa Kubotacho, Sakyo-ku, Kyoto-shi, Kyoto, 6068266 (JP). KAN, Keizo [JP/JP]; 300-16, Kitatamiya 1-chome, Tokushima-shi, Tokushima 7700003 (JP). NAGAO, Hitoshi [JP/JP]; 5-22, Sakoichibanchi, Tokushima-shi, Tokushima, 7700021 (JP). WATANABE, Kenji [JP/JP]; 60-2, Saita aza Kitahama, Muiyacho, Naruto-shi, Tokushima, 7720002 (JP). TAI, Kuni-nori [JP/JP]; La Faure Kawauchi 107, 5-2, Kanaoka,

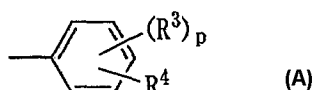
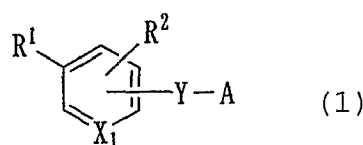
Kawauchicho, Tokushima-shi, Tokushima, 7710125 (JP). NAKAGAWA, Takashi [JP/JP]; 15-9-508, Banba 3-chome, Otsu-shi, Shiga, 5200802 (JP). TAKASU, Hideki [JP/JP]; 5-18-207, Mise 1-chome, Otsu-shi, Shiga, 5200004 (JP). SAKAMOTO, Makoto [JP/JP]; 879-18, Wanikasuga 1-chome, Shigacho, Shiga-gun, Shiga, 5200529 (JP). MIYAJIMA, Keisuke [JP/JP]; 13-1-410, Mano 1-chome, Otsu-shi, Shiga, 5200232 (JP). YAMADA, Satoshi [JP/JP]; 6-12, Imakatata 2-chome, Otsu-shi, Shiga, 5200241 (JP). KOJIMA, Yutaka [JP/JP]; 11-1, Karasaki 1-chome, Otsu-shi, Shiga 5200106 (JP). YASUMURA, Koichi [JP/JP]; 8-2, Tsurunosato, Otsu-shi, Shiga, 5200826 (JP). OHI, Naoto [JP/JP]; 21-5-202, Karasaki 3-chome, Otsu-shi, Shiga, 5200106 (JP). OKUNO, Mitsuhiro [JP/JP]; 27-23, Honkatata 3-chome, Otsu-shi, Shiga, 5200242 (JP). SUGIYAMA, Kazuhisa [JP/JP]; 13-21-405, Akanecho, Otsu-shi, Shiga, 5200003 (JP). KIYONO, Kunihiko [JP/JP]; 1-7, Hiyoshidai 1-chome, Otsu-shi, Shiga, 5200112 (JP). SUZUKI, Takashi [JP/JP]; 8-8-301, Uchidehama, Otsu-shi, Shiga, 5200806 (JP). AKAMATSU, Seiji [JP/JP]; 10-24-102, Ogotokita 1-chome, Otsu-shi, Shiga, 5200107 (JP). KODAMA, Takeshi [JP/JP]; 22-2-305, Honkatata 4-chome, Otsu-shi, Shiga, 5200242 (JP). YANAGIHARA, Yasuo [JP/JP]; 13-16-507, Akanecho, Otsu-shi, Shiga, 5200003 (JP). SUMIDA, Takumi [JP/JP]; 20-704, Higashishin-machi 2-chome, Tokushima-shi, Tokushima, 7700912 (JP).

(74) Agents: ASAMURA, Kiyoshi et al.; Room 331, New Ohtemachi Bldg., 2-1, Ohtemachi 2-chome, Chiyoda-ku, Tokyo 1000004 (JP).

(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, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, 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.

[Continued on next page]

(54) Title: AROMATIC COMPOUND



(57) Abstract: The present invention provides a novel compound, which has an excellent effect of suppressing the generation of collagen and less side effects, with being excellent in terms of safety. The compound of the present invention is represented by the following general formula (1): [wherein X_1 represents a nitrogen atom or a group $-CH=$; R_1 represents a group $-Z-R_6$, wherein Z represents a group $-CO-$, a group $-CH(OH)-$, or the like, and R_6 represents a 5- to 15-membered monocyclic, dicyclic, or tricyclic, saturated or unsaturated heterocyclic group having 1 to 4 nitrogen atoms, oxygen atoms, or sulfur atoms; R_2 represents a hydrogen atom, a halogen atom or a lower alkylene group; Y represents a group $-O-$, a group $-CO-$, a group $-CH(OH)-$, a lower alkylene group, or the like; and (A) represents a group or the like, wherein R_3 represents a hydrogen atom, a lower alkoxy group, or the like, p represents 1 or 2, and R^* represents an imidazolyl lower alkyl group or the like.



(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:

— *without international search report and to be republished upon receipt of that 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.