

PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

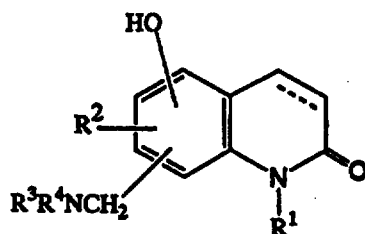
20000565-2

Ipos

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : C07D 215/26, A61K 31/47, C07D 215/22, 405/12		A1	(11) International Publication Number: WO 99/09011
			(43) International Publication Date: 25 February 1999 (25.02.99)
(21) International Application Number: PCT/JP98/03657		(81) Designated States: AU, BR, CA, CN, ID, KR, MX, SG, US, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).	
(22) International Filing Date: 18 August 1998 (18.08.98)			
(30) Priority Data: 9/222431 19 August 1997 (19.08.97) JP		Published With international search report.	
(71) Applicant (for all designated States except US): OTSUKA PHARMACEUTICAL CO., LTD. [JP/JP]; 9, Kanda Tsukasacho 2-chome, Chiyoda-ku, Tokyo 101-8535 (JP).			
(72) Inventors; and			
(75) Inventors/Applicants (for US only): OSHIRO, Yasuo [JP/JP]; 61, Yoshinohoncho 6-chome, Tokushima-shi, Tokushima 770-0802 (JP). NISHI, Takao [JP/JP]; 2-28, Aza Taro-hachisu Sotobiraki, Kitajimacho, Itano-gun, Tokushima 771-0202 (JP). KUWAHARA, Keiichi [JP/JP]; 1201-20, Shioya, Ako-shi, Hyogo 678-0201 (JP). WATANABE, Kozo [JP/JP]; 11-19, Tanakacho 1-chome, Higashinada-ku, Kobe-shi, Hyogo 658-0081 (JP).			
(74) Agents: ASAMURA, Kiyoshi et al.; New Ohtemachi Building, Room 331, 2-1, Ohtemachi 2-chome, Chiyoda-ku, Tokyo 100-0004 (JP).			

(54) Title: CARBOSTYRIL DERIVATIVES FOR INHIBITING SKIN ERYTHEMA AND/OR SKIN PIGMENTATION



(1)

(57) Abstract

The present invention provides an agent for inhibiting skin erythema and/or skin pigmentation, containing at least one selected from the group consisting of the carbostyryl derivative and salt thereof represented by general formula (1), wherein R^1 is a hydrogen atom, a lower alkyl group or the like; R^2 is a hydrogen atom, a lower alkyl group, a lower alkoxy group or the like; R^3 and R^4 are lower alkyl groups which may have hydroxyl groups as substituents or the like; the carbon-carbon bond between 3- and 4-positions in the carbostyryl skeleton is a single bond or double bond.