

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
30 September 2004 (30.09.2004)

PCT

(10) International Publication Number
WO 2004/082675 A1

(51) International Patent Classification⁷: **A61K 31/265**,
A61P 9/10

(21) International Application Number:
PCT/JP2004/003589

(22) International Filing Date: 17 March 2004 (17.03.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/455,293 17 March 2003 (17.03.2003) US
60/460,521 4 April 2003 (04.04.2003) US
60/477,202 10 June 2003 (10.06.2003) US

(71) Applicant (for all designated States except US): **JAPAN TOBACCO INC.** [JP/JP]; 2-1, Toranomon 2-chome, Minato-ku, Tokyo 1058422 (JP).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **URATA, Yasuo** [JP/JP]; c/o Japan Tobacco Inc., JT Building, 2-1, Toranomon 2-chome, Minato-ku, Tokyo 1058422 (JP). **ISHIKAWA, Tomohiro** [JP/JP]; c/o Japan Tobacco Inc., Central Pharmaceutical Research Institute, 1-1, Murasaki-cho, Takatsuki-shi, Osaka 5691125 (JP).

(74) Agent: **TAKASHIMA, Hajime**; Fujimura Yamato Seimei Bldg., 2-14, Fushimimachi 4-chome, Chuo-ku, Osaka-shi, Osaka 5410044 (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, JP, KE, KG, 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, 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, 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, IT, 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.

(54) Title: METHOD FOR INCREASING THE ORAL BIOAVAILABILITY OF S-2-('1-(2-ETHYLBUTYL)CYCLOHEXYL!CARBONYL!AMINO)PHENYL!-2-METHYLPROPANETHIOATE

(57) Abstract: The invention is directed to a method of increasing the bioavailability of the active form of S-[2-([1-(2-ethylbutyl)cyclohexyl]carbonyl]amino)phenyl] 2-methylpropanethioate by administration of a therapeutically effective amount of the drug with food. The invention also provides a kit comprising a pharmaceutical composition comprising a therapeutically effective amount of S-[2-([1-(2-ethylbutyl)cyclohexyl]carbonyl]amino)phenyl] 2-methylpropanethioate and a pharmaceutically acceptable carrier, prescribing information, and a container, wherein the prescribing information includes advice to a patient regarding administration of the drug with food to improve bioavailability.

WO 2004/082675 A1