PCT WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 :		(11) International Publication Number:	WO 99/14212
C07D 311/58, A61K 31/495, 31/535	A1	(43) International Publication Date:	25 March 1999 (25.03.99)

(21) International Application Number: PCT/SE98/01603

(22) International Filing Date: 9 September 1998 (09.09.98)

(30) Priority Data:
9703377-3 18 September 1997 (18.09.97) SE

(71) Applicant *(for all designated States except US)*: ASTRA AKTIEBOLAG [SE/SE]; S-151 85 Södertälje (SE).

(72) Inventors; and

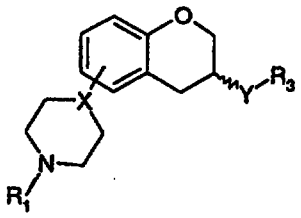
(75) Inventors/Applicants *(for US only)*: BERG, Stefan [SE/SE]; Astra Arcus AB, S-151 85 Södertälje (SE). NYLÖF, Martin [SE/SE]; Astra Arcus AB, S-151 85 Södertälje (SE). ROSS, Svante [SE/SE]; Astra Arcus AB, S-151 85 Södertälje (SE). THORBERG, Seth-Olov [SE/SE]; Astra Arcus AB, S-151 85 Södertälje (SE).

(74) Agent: ASTRA AKTIEBOLAG; Patent Dept., S-151 85 Södertälje (SE).

(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, 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 the receipt of amendments.

(54) Title: SUBSTITUTED CHROMAN DERIVATIVES



(I)

(57) Abstract

The present invention relates to new piperidyl- or piperazinyl-substituted dihydro-2*H*-1-benzopyran derivatives compounds having formula (I) wherein X is N or CH; Y is NR_2CH_2, CH_2NR_2, NR_2CO, $CONR_2$, NR_2SO_2 or NR_2CONR_2 wherein R_2 is H or C_1-C_6 alkyl; R_1 is H, C_1-C_6 alkyl or C_3-C_6 cycloalkyl; R_3 is C_1-C_6 alkyl, C_3-C_6 cycloalkyl or $(CH_2)_n$-aryl, wherein aryl is phenyl or a heteroaromatic ring containing one or two heteroatoms selected from N, O and S and which may be mono- or di-substituted with R_4 and/or R_5; and n is 0-4; as *(R)*-enantiomers, *(S)*-enantiomers or a racemate in the form of a free base or a pharmaceutically acceptable salt or solvate thereof, a process for their preparation, pharmaceutical compositions containing said therapeutically active compounds and to the use of said active compounds.