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(54) Title: 4-, 5-, 6- AND 7-INDOLE DERIVATIVES USEFUL FOR THE TREATMENT OF CNS DISORDERS

(57) Abstract: The present invention relates to 4-, 5-, 6- or 7-methylene substituted indolyl derivatives of Formula I, wherein R is aryl or heteroaryl, where said aryl or heteroaryl groups may be substituted one or more times with a substituent selected from hydrogen, halogen, cyano, nitro, C_{1-6}-alkyl, C_{2-6}-alkenyl, C_{2-6}-alkynyl, C_{3-8}cycloalkyl, C_{3-8}-cycloalkyl-C_{1-6}-alkyl, C_{1-6}-alkoxyl, C_{1-6}-alkylthio, hydroxy, hydroxy-C_{1-6}-alkyl trifluoromethyl, trifluoromethylsulfonyl, C_{1-6}-alkylsulfonyl, amino, C_{1-6}-alkylamino, di-(C_{1-6}-alkyl) amino, acyl, aminocarbonyl and a methylene dioxy group; X is N, C or CH, provided that the dotted line indicates a bond when X is C and no bond when X is N or CH, R^1 is hydrogen, C_{1-6}-alkyl, $C_{2\,6}$-alkenyl, C_{2-6}-alkynyl, C_{3-8}-cycloalkyl, C_{3-8}-cycloalkyl-C_{1-6}-alkyl, aryl, aryl-C_{1-6}-alkyl, acyl, thioacyl, C_{1-6}-alkylsulfonyl, trifluoromethylsulfonyl or arylsulfonyl, and R^2 and R^3 are independently selected from hydrogen, halogen, cyano, nitro, C_{1-6}-alkyl, C_{2-6}-alkenyl, C_{2-6}-alkynyl, C_{3-8}-cycloalkyl, C_{3-8}-cycloalkyl-C_{1-6}-alkyl, $C_{1\,6}$-alkoxy, C_{1-6}-alkylthio, hydroxy, hydroxy-C_{1-6}-alkyl trifluoromethyl, trifluoromethylsulfonyl, C_{1-6}-alkylsulfonyl, amino, C_{1-6}-alkylamino, di-(C_{1-6}-alkyl)amino, acyl and aminocarbonyl, The compounds of the invention are selective dopamine D_4 ligands