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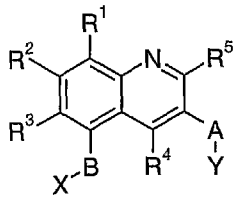
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(54) Title: QUINOLINES AND THEIR THERAPEUTIC USE



(1)

(57) Abstract: Compounds of formula [1] are CRTH2 antagonists, useful in the treatment of conditions having an inflammatory component; in which: R^1, R^2, R^3, R^4 and R^5 are independently hydrogen, C_1-C_6alkyl, C_1- C_6fluoroalkyl, cyclopropyl, halo, $-S(O)_nR^6$, $-SO_2NR^7R^8$, $-NR^7R^8$, $-NR^7C(O)R^6$, $-CO_2R^7$, $-C(O)NR^7R^8$, $-C(O)R^6$, $-NO_2$, -CN or a group $-OR^9$; wherein each R^6 is independently C_1-C_6alkyl, C_1-C_6fluoroalkyl, cycloalkyl, aryl, or heteroaryl; R^7, R^8 are independently C_1-C_6alkyl, C_1-C_6fluoroalkyl, cycloalkyl, cycloalkyl-(C_1-C_6alkyl)-, aryl, heteroaryl or hydrogen; R^9 is hydrogen, C_1-C_6alkyl, C_1-C_6fluoroalkyl, cycloalkyl, cylcoalkyl-(C_1-C_6alkyl)-, or a group $-SO_2R^6$; A is $-CHR^{10}$-, -C(O)-, $-S(O)_n$-, -0-, or $-NR^{10}$- wherein n is an integer from 0-2 and R^{10} is hydrogen, C_1-C_3alkyl, or C_1-C_6fluoroalkyl group; B is a direct bond, or a divalent radical selected from $-CH_2$-, $-CH_2CH_2$-, $-CHR^{11}$-, $-CR^{11}R^{12}$-, $-CH_2CHR^{11}$-, $-CH_2CR^{11}R^{12}$-, $-CHR^{11}CHR^{12}$-, and divalent radicals of formula $-(CR^{11}R^{12})_p$-Z- wherein Z is attached to the ring carrying R^1, R^2 and R^3; wherein R^{11} is C_1-C_3alkyl, cyclopropyl, C_1-C_6fluoroalkyl; R^{12} is methyl or fluoromethyl; p is independently 1 or 2; and Z is -0-, -NH-, or $-S(O)_n$-, wherein n is an integer from 0-2; X is a carboxylic acid, tetrazole, 3-hydroxyisoxazole, hydroxamic acid, phosphinate, phosphonate, phosphonamide, or sulfonic acid group, or a group of formula $C(=O)NHSO_2R^6$ or $SO_2NHC(=O)R^6$; and Y is aryl, heteroaryl, aryl-fused- heterocycloalkyl, heteroaryl-fused-cycloalkyl, heteroaryl-fused-heterocycloalkyl or aryl-fused-cycloalkyl group.

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