Title (en)

SUBSTITUTED 8-ARYLQUINOLINE PHOSPHODIESTERASE-4 INHIBITORS

Title (de)

SUBSTITUTIERTE 8-ARYLCHINOLIN PHOSPHODIESTERASE-4 INHIBITOREN

Title (fr)

INHIBITEURS DE 8-ARYLQUINOLINE PHOSPHODIESTERASE-4 SUBSTITUEE

Publication

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Application

EP 00986937 A 20001220

Priority

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Abstract (en)

[origin: WO0146151A1] Novel substituted 8-arylquinolines represented by Formula (I), or a pharmaceutically acceptable salt thereof, wherein S1, S2 and S3 are independently H, -OH; halogen, -C1-C6alkyl, -NO2, -CN, or -C1-C6alkoxy, wherein the alkyl and alkoxy groups are optionally substituted with 1-5 substituents; wherein each substituent is independently a halogen or OH; R1 is a H, OH, halogen, carbonyl, or -C1-C6alkyl, -cycloC3-C6alkyl, -C1-C6alkenyl, -C1-C6alkoxy, aryl, heteroaryl, -CN, -heterocycloC3-C6alkyl, -amino, -C1-C6alkylamino, -(C1-C6alkyl)(C1-C6alkyl)amino, -C1-C6alkyl(oxy)C1-C6alkyl, -C(O)NH(aryl), -C(O)NH(heteroaryl), -SOnNH(aryl), -SOnNH(heteroaryl), -SOnNH(C1-C6alkyl), -C(O)N(C0-C6alkyl)(C0-C6alkyl), -NH-SOn-(C1-C6alkyl), -SOn-(C1-C6alkyl), -(C1-C6alkyl)-O-C(CN)-dialkylamino, or -(C1-C6alkyl)-SOn-(C1-C6alkal) group, wherein any of the groups is optionally substituted with 1-5 substituents; wherein each substituent is independently a halogen, -OH, -CN, -C1-C6alkyl, -cycloC3-C6alkyl, -C(O)(heterocycloC3-C6alkyl), -C(O)-O-(C0-C6alkyl), -C(O)-aryloxy, -C1-C6alkoxy, -(C0-C6alkyl)(C0-C6alkyl)amino, cycloalkyloxy, acyl, acyloxy, -cycloC3-C6alkyl, heterocycloC3-C6alkyl, aryl, heteroaryl, carbonyl, carbamoyl, or -SOn-(C1-C6alkyl); A is CH, C-ester, or C-R4; R2 and R3 independently is an aryl, heteroaryl, H, halogen, -CN, -C1-C6alkyl, heterocycloC3-6alkyl, -C1-C6alkoxy, carbonyl, carbamoyl, -C(O)OH, -C1-C6alkyl)-SOn-(C1-C6alkyl), -C(O)N(C0-C6alkyl)(C0-C6alkyl), or -C1-C6alkylacylamino group, wherein any of the groups is optionally substituted with 1-5 substituents, wherein each substituent is independently an aryl, heteroaryl, halogen, -NO2, -C(O)OH, carbonyl, -CN, -C1-C6alkyl, -SOn-(C1-C6alkyl), -SOn-(aryl), aryloxy, -heteroaryloxy, C1-C6alkoxy, N-oxide, -C(O)-heterocycloC3-C6alkyl, -NH-cycloC3-C6alkyl, amino, -OH, or -(C0-C6alkyl)(C0-C6alkyl)amino, -C(O)-N(C0-C6alkyl)(C0-C6alkyl) substituent group, wherein each substituent group independently is optionally substituted with -OH, C1-C6alkoxy, -C1-C6alkyl, -cycloC3-C6alkyl, aryloxy, -C(O)OH, -C(O)O(C1-C6alkyl), halogen, -NO2, -CN, -SOn-(C1-C6alkyl), or -C(O)-N(C0-C6alkyl)(C0-C6alkyl); one of R2 and R3 must be an aryl or heteroaryl, optionally substituted; when R2 and R3 are both an aryl or heteroaryl, then R2 and R3 may be optionally connected by a thio, oxy, or (C1-C4alkyl) bridge to form a fused three ring system; are PDE4 inhibitors.

IPC 1-7

C07D 215/12; A61K 31/47; A61K 31/4709; C07D 215/14; C07D 401/10; C07D 413/10; C07D 417/10

IPC 8 full level

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