

Title (en)
SUBSTITUTED 5-METHYLDIHYDROPYRIDAZINONES AND THEIR USE IN THE PROPHYLAXIS AND/OR TREATMENT OF ANEMIAS

Title (de)
SUBSTITUIERTE 5-METHYLDIHYDROPYRIDAZINONE UND IHRE VERWENDUNG IN DER PROPHYLAXE UND/ODER DER BEHANDLUNG VON ANÄMIEN

Title (fr)
5-METHYLDIHYDROPYRIDAZINONES SUBSTITUEES ET LEUR UTILISATION POUR ASSURER LA PROPHYLAXIE ET/OU LE TRAITEMENT D'ANEMIES

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- EP 0101873 W 20010220

Abstract (en)

[origin: DE10010425A1] The use of 6-(4-(acylamino)-phenyl)-5-methyl-dihydropyridazinone derivatives (I) as medicaments for the treatment or prophylaxis of anemia is new. Some compounds (I) are new. The use of pyridazinone derivatives of formula (I) (including their tautomers and salts) is claimed for production of medicaments or pharmaceutical compositions for the prophylaxis and/or treatment of anemia. A, D, E, G = H, alkyl, OH, NO₂, halo or alkoxy; R₁ = H or 1-4C alkyl; R₂ = (a) 2-methyl-tetrahydrofuran-2-yl, 1,2-dithian-4-yl, 5-methyl-1,3-dioxan-5-yl, 5,5-dimethyl-2-oxo-tetrahydrofuran-4-yl, 2,5-dihydrothienyl, 2-oxo-tetrahydrofuran-5-yl, 2-oxo-pyrrolidin-5-yl, 4-methyl-2-oxo-pyrrolidin-5-yl, tetrahydrofuran-5-yl, -CHPh₂, 4-(5-methyl-4,5-dihydropyridazin-3(2H)-on-6-yl)-anilino or (1-4C) alkylbenzamidomethyl; (b) cycloalkyl (optionally substituted (os) by 1-4 of alkyl, alkoxy, alkoxycarbonyl, OH, COOH or aryl (itself os by 1-3 halo)); (c) aryl, aryloxy, arylthio, dihydropyridinone or Het' (all os by 1-3 of CF₃, NO₂, OH, CN, cycloalkyl, halo, mono-, di- or trihalophenoxyalkyl, phenoxy, alkoxy, alkoxycarbonyl, COOH, arylcarbonyl or NR₃R₄; or by phenyl (itself os by 1-3 of alkyl or alkoxy)); (d) 1-10C alkyl (os by 1-3 of halo, alkoxycarbonyl, COOH, 1-6C acyloxy, NR₅R₆, S(C(S)NR₇R₈ or OR₉); (e) alkoxycarbonyl or NR₁₃R₁₄; or (f) alkenyl (os by aryl); Het = 5- or 6-membered aromatic heterocycle, containing 1-3 of O, S and/or N as heteroatom(s); R₉ = H, alkyl or alkenyl (os by aryl); or 1-10C alkyl (os by 3-8C cycloalkyl, aryl or Het' (where the ring systems are os by 1-3 of OH, CN, cycloalkyl, halo, CF₃, alkyl, aryl, OPh, 1-8C alkoxy, alkoxycarbonyl, COOH or NR₁₁R₁₂; or aryl (itself os by halo))); R₃ - R₈, R₁₁, R₁₂ = H, alkyl or 1-6C acyl; Het' = optionally benzo-fused, aromatic or saturated, 5- or 6-membered heterocycle containing 1-3 of O, S, N and/or NR₁₀ as heteroatom(s); R₁₀ = H, Ph or alkyl; R₁₃, R₁₄ = H, alkyl or 1-6C acyl; 3-8C cycloalkyl, aryl or 5- or 6-membered heterocycle containing 1-3 of O, S and/or N as heteroatom(s) (all os by 1 or 2 of OH, alkyl, alkoxycarbonyl, alkoxy, halo, CONR₁₅R₁₆ or SO₂NR₁₇R₁₈); or alkyl (os by phenyl, itself os by 1-3 halo); R₁₅-R₁₈ = H, aryl or alkyl; Unless specified otherwise alkyl moieties have 1-6C, cycloalkyl moieties 3-6C, alkenyl moieties 2-6C and aryl moieties 6-10C. Independent claims are included for 26 specific new compounds (I) (including tautomers and salts), i.e. 6-(4-(N-(QCO)-amino)-phenyl)-5-methyl-4,5-dihydropyridazin-3(2H)-ones and 6-(4-(N-(Q'CO)-amino)-2-methylphenyl)-5-methyl-4,5-dihydropyridazin-3(2H)-ones, where: Q = 3-(2-chloro-4-fluorophenyl)-5-methyl-isoxazol-4-yl, 2-carbamoyl-3-thienylamino, 2-(2-fluorophenyl)-ethylamino, 2-sulfamoylphenylamino, 2-fluorophenylamino, 3,5-dichloro-2-pyridinyl, 3-isoquinolinyl, 6-methyl-2-pyridinyl, 4-chloro-2-pyridinyl, 4-(methoxycarbonyl)-2-pyridinyl, 3-pyridinylmethyl, 2,6-dichlorobenzyl, 2-phenylethyl, 3-fluorophenyl, 2-fluorophenyl, 2-(trifluoromethyl)-phenyl, 6-fluoro-2-pyridinyl or 3-methyl-2-pyridinyl; and Q' = 2-pyridinyl, 3,5-dichloro-2-pyridinyl, 2-pyridinylmethyl, 6-methyl-2-pyridinyl, 6-fluoro-2-pyridinyl, 3-pyridinylmethyl, 2-fluorophenyl or 3-propoxy-2-pyridinyl.

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