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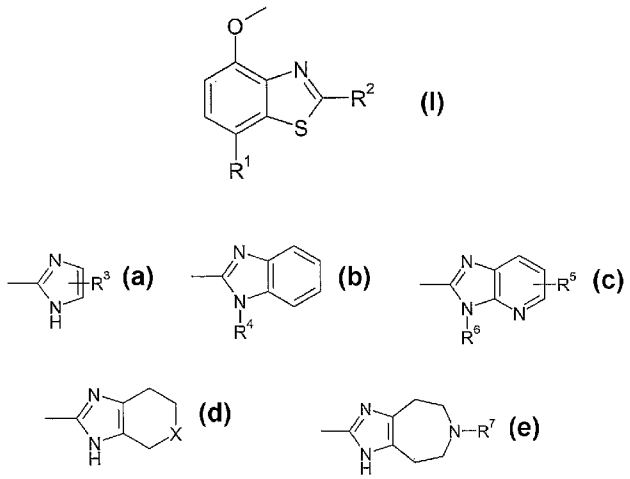
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(54) Title: 2-IMIDAZO-BENZOTHIAZOLES AS ADENOSINE RECEPTOR LIGANDS



(57) Abstract: The invention relates to 2-imidazo-benzothiazoles of general formula (I), wherein R^1 is phenyl or a N and/or O containing heterocycle; R^2 is an imidazol or an annulated imidazol, selected from the group consisting of formulae a), b), c), d) or e); R^3 is hydrogen, phenyl, 2,3-dihydro-benzo [1,4] dioxin-6-yl, benzo [b] thiophen-3-yI, 3-methyl-benzo[b]thiophen-2-yl, thiophen-2-yl,thiophen-3-yl or thiophen-2-yl-methyl, R^4 is hydrogen,-$(CH_2)_n$O-lower alkyl or lower alkyl; R^5 is hydrogen, lower alkyl, halogen, morpholinyl, -NR'R", piperidinyl, optionally substituted by hydroxy, or is pyrrolidin- l-yl; R^6 is hydrogen, benzyl or -$(CH_2)_n$O-lower alkyl, R^7 is hydrogen, -C(O)O-lower alkyl, -C(O)-C_6H_4-halogen, -C(O)-C_6H_4-lower alkyl, -C(O)-lower alkyl, -C(O)-cycloalkyl, -C(O)-NR'R", -C(O)-$(CH_2)_n$O-lower alkyl, -$S(O)_2$-lower alkyl, -$(CH_2)_n$O-lower alkyl, -C(O) -pyridin-4-yl, which ring may be substituted by lower alkyl, halogen-lower alkyl or by pyrrol-l-yl-methyl, or is -$(CH_2)_n$-C(O)-NR'R"; R'/R'' are independently from each other hydrogen, lower alkyl or -$(CH_2)_n$-tetrahydropyran-4-yl, X is -CH_2-,-NR'''-or-O-; R''' is hydrogen, -C(O)-lower alkyl, -C(O)O-lower alkyl, -C(O)-$C_6H_4CH_3$, or benzyl; n is 1or 2; and to pharmaceutically acceptable acid addition salts thereof. These compounds are adenosine receptor ligands and therefore suitable for tha treatment of diseases related to this receptor.

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