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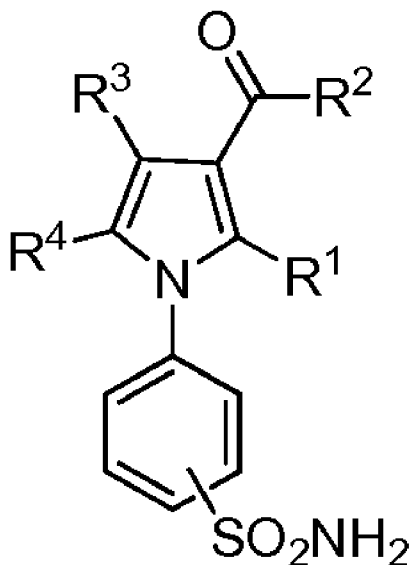
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(54) Title: PYRROLE DERIVATIVES USED AS MODULATORS OF ALPHA7 NACHR



(I)

(57) Abstract: The present invention is related to pyrrole derivatives of formula I as the modulators of nicotinic acetylcholine receptors particularly the $\alpha 7$ subtype. The invention includes pyrrole derivatives, analogues, their prodrugs, their isotopes, their metabolites, pharmaceutically acceptable salts, polymorphs, solvates, optical isomers, clathrates, co-crystals, combinations with suitable medicament and pharmaceutical compositions thereof. The present invention also includes process of preparation of the said compounds and intended use in therapy of them. Owing to the modulatory activity of the pyrrole derivatives on the nicotinic acetylcholine receptors, the invention finds application in the prophylaxis and therapy of disorders encompassing the involvement of cholinergic transmission in the central and peripheral nervous system. The invention relates to the ability of pyrrole derivatives to modulate the cholinergic transmission and efficacy of the endogenous neurotransmitter ACh through the nicotinic acetylcholine receptors particularly the $\alpha 7$ subtype.



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