Acetylcholine receptors (muscarinic) in GtoPdb v.2021.2

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Abstract

Muscarinic acetylcholine receptors (mAChRs) (nomenclature as agreed by the NC-IUPHAR Subcommittee on Muscarinic Acetylcholine Receptors [50]) are activated by the endogenous agonist acetylcholine. All five (M₁-M₅) mAChRs are ubiquitously expressed in the human body and are therefore attractive targets for many disorders. Functionally, M₁, M₃, and M₅ mAChRs preferentially couple to G₉/₁₁ proteins, whilst M₂ and M₄ mAChRs predominantly couple to Gᵢₒ proteins. Both agonists and antagonists of mAChRs are clinically approved drugs, including pilocarpine for the treatment of elevated intra-ocular pressure and glaucoma, and atropine for the treatment of Bradycardia and poisoning by muscarinic agents such as organophosphates.

Contents

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Database links

Acetylcholine receptors (muscarinic)
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