

Recombinant Human CHRM1, His-tagged

Cat. No. CHRM1-11205H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CHRM1 protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
Species	Human
Source	E.coli
ProteinLength	210-359a.a.
Description	The muscarinic cholinergic receptors belong to a larger family of G protein-coupled receptors. The functional diversity of these receptors is defined by the binding of acetylcholine and includes cellular responses such as adenylate cyclase inhibition, phosphoinositide degeneration, and potassium channel mediation. Muscarinic receptors influence many effects of acetylcholine in the central and peripheral nervous system. The muscarinic cholinergic receptor 1 is involved in mediation of vagally-induced bronchoconstriction and in the acid secretion of the gastrointestinal tract. The gene encoding this receptor is localized to 11q13.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 300mM Imidazole and 0.7% Sarcosyl, 15%glycerol.

GENE INFORMATION

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Gene Name	CHRM1 cholinergic receptor, muscarinic 1 [Homo sapiens]
Official Symbol	CHRM1
Synonyms	CHRM1; cholinergic receptor, muscarinic 1; muscarinic acetylcholine receptor M1; acetylcholine receptor; muscarinic 1; acetylcholine receptor, muscarinic 1; M1; HM1; M1R; MGC30125;
Gene ID	1128
mRNA Refseq	NM_000738
Protein Refseq	NP_000729
MIM	118510
UniProt ID	P11229
Chromosome Location	11q12-q13
Pathway	Amine ligand-binding receptors, organism-specific biosystem; Calcium Regulation in the Cardiac Cell, organism-specific biosystem; Calcium signaling pathway, organism-specific biosystem; Calcium signaling pathway, conserved biosystem; Cholinergic synapse, organism-specific biosystem; Class A/1 (Rhodopsin-like receptors), organism-specific biosystem; G alpha (q) signalling events, organism-specific biosystem;
Function	G-protein coupled acetylcholine receptor activity; G-protein coupled receptor activity; drug binding; phosphatidylinositol phospholipase C activity; receptor activity; signal transducer activity;

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