Recombinant Human CHRNA6, His-tagged

Cat. No. CHRNA6-5076H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CHRNA6 protein, fused to His-tag at N-terminus, was expressed in E.coli.
Species	Human
Source	E.coli
Description	Cholinergic receptor, nicotinic, alpha 6, also known as CHRNA6, belongs to the nicotinic acetylcholine receptors (nAChRs) family. nAChRs are heteropentameric ligand-gated ion channels resulting from the assembly of alpha and beta protein subunits. This ion channel is gated by the binding of acetylcholine to the assembled receptor. Alpha 6 is often found associated with beta 3, beta 2, and alpha 4 subunits. CHRNA6 receptors have a relatively selective localization to the nigrostriatal pathway where they function to mediate dopamine release.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol
Molecular Mass	29.3 kDa (250aa)
AA Sequence	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSKGCV GCATEERLFH KLFSHYNQFI RPVENVSDPV TVHFEVAITQ LANVDEVNQI METNLWLRHI WNDYKLRWDP MEYDGIETLR VPADKIWKPD IVLYNNAVGD FQVEGKTKAL LKYNGMITWT PPAIFKSSCP MDITFFPFDH QNCSLKFGSW TYDKAEIDLL IIGSKVDMND FWENSEWEII DASGYKHDIK YNCCEEIYTD ITYSFYIRRL

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Purity	>85% by SDS - PAGE
Applications	SDS-PAGE
Storage	Can be stored at +4centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20centigrade or -70centigrade. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	CHRNA6 cholinergic receptor, nicotinic, alpha 6 (neuronal) [Homo sapiens]
Official Symbol	CHRNA6
Synonyms	CHRNA6; cholinergic receptor, nicotinic, alpha 6 (neuronal); cholinergic receptor, nicotinic, alpha polypeptide 6; neuronal acetylcholine receptor subunit alpha-6; acetylcholine receptor; nicotinic; alpha 6 (neuronal); acetylcholine receptor, nicotinic, alpha 6 (neuronal); CHNRA6;
Gene ID	8973
mRNA Refseq	NM_001199279
Protein Refseq	NP_001186208
MIM	606888
UniProt ID	Q15825

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Chromosome Location	8p22
Pathway	Acetylcholine Binding And Downstream Events, organism-specific biosystem; Activation of Nicotinic Acetylcholine Receptors, organism-specific biosystem; Cholinergic synapse, organism-specific biosystem; Highly calcium permeable nicotinic acetylcholine receptors, organism-specific biosystem; Highly calcium permeable postsynaptic nicotinic acetylcholine receptors, organism-specific biosystem; Neuroactive ligand-receptor interaction, organism-specific biosystem; Neuroactive ligand-receptor interaction, conserved biosystem;
Function	acetylcholine receptor activity; acetylcholine-activated cation-selective channel activity; extracellular ligand-gated ion channel activity; ion channel activity; receptor activity;

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