

# Recombinant Human cholinergic receptor, nicotinic, alpha 6 (neuronal), His-tagged

**Cat. No.** CHRNA6-475H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	CHRNA6, 26-239aa Human, His tag, E.coli
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	26-239 a.a.
<b>Description</b>	<p>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. Recombinant human CHRNA6 protein, fused to His-tag at N-terminus, was expressed in E.coli.</p>
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol
<b>Molecular Mass</b>	29.3 kDa (250aa)
<b>AA Sequence</b>	<p>MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSKGCV GCATEERLFH            KLFSHYNQFI RPVENVSDPV TVHFEVAITQ LANVDEVNQI METNLWLRHI            WNDYKLRWDP MEYDGIETLR VPADKIWKPD IVLYNNAVGD FQVEGKTKAL</p>

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LKYNGMITWT PPAIFKSSCP MDITFFPFDH QNCSLKFGSW TYDKAEIDLL  
IIGSKVDMND FWENSEWEII DASGYKHDIK YNCCEEIYTD ITYSFYIRRL

**Purity** >85% by SDS - PAGE

**Storage** Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. 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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<b>Chromosome Location</b>	8p22
<b>Pathway</b>	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;
<b>Function</b>	acetylcholine receptor activity; acetylcholine-activated cation-selective channel activity; extracellular ligand-gated ion channel activity; ion channel activity; receptor activity;

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