

Recombinant Human CHRNA6, His-tagged

Cat. No. CHRNA6-68H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Neuronal Acetylcholine Receptor Subunit α -6/CHRNA6 is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (His328-Arg465) of Human CHRNA6 fused with a polyhistidine tag at the C-terminus.
Species	Human
Source	HEK293
ProteinLength	328-465 a.a.
AA Sequence	EPSPGTLPRKAGVFSDLSNQELKAVHSFLWSKKELRLQPSSTTTMAKNTVFLIEMLL PKKYHVLRLDKGERHPVREARAVIFFGDQEHNVTEFAVGPLPGPCYMRALSPRP GYQSSWASRPISAEYA LLYHTLQEATKPLHQFFLNTTGFSFQDCHDRCLAFTDVA PRGVASGQRRSWLIIQRYVEGYFLHP TGLELLVDHGSTDAGHWAVEQVWYNGKFY GSPEELARKYADGEVDVVLEDPLPGGKGHDSTEEP PLFSSHKPRGDFPSPIHVSG PRLVQPHGPRFRLEGNAVLYGGWSFAFRLRSSGLQVLNVHFGGE RIAYEVSQVE AVALYGGHTPAGMQTKYLDVGWGLGSVTHELAPGIDCPETATFLDTFHYYDADDP VHYPALCLFEMPTGVPLRRHFNSNFKGGFNFYAGLKGQVLVLRRTTSTVYNYDIW DFIFYPNGV MEAKMHATGYVHATFYTPEGLRHGTRLHTHLIGNIHTHLVHYRVDLDV AGTKNSFQTLQMKLENI TNPWSPRHRVVQPTLEQTQYSWERQAAFRFKRKLPKYL LFTSPQENPWGHKRSYRLQIHSMADQV LPPGWQEEQAITWARYPLAVTKYRESEL CSSSIYHQNDPWPDPVVFQFLHNNENIENEDLVAWV TVGFLHIPHSEDIPNTATPG NSVGFLLRPFNFPPEDPSLASRDTVIVWPRDNGPNYVQRWIPEDR DCSMPPPFSY

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NGTYRPVVDHHHHHH

Endotoxin Less than 0.1 ng/μg (1 IEU/μg).

Purity Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.

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](#)

Chromosome Location 8p22

Pathway Acetylcholine Binding And Downstream Events, organism-specific biosystem;

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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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