

## Recombinant Human CHRNA6, His-tagged

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

### SPECIFICATION

**Product Overview** Recombinant Human Neuronal Acetylcholine Receptor Subunit  $\alpha$ -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**

EPSPGTLPRKAGVFSDLNQELKAVHSFLWSKELRLQPSSTTTMAKNTVFLIEMLL  
 PKKYHVLR FLDKGERHPVREARAVIFFGDQEHPNVTEFAVGPLPGPCYMRALSPRP  
 GYQSSWASRP ISTAEYA LLYHTLQEATKPLHQFFLNTTGFSFQDCHDRCLAFTDVA  
 PRGVASGQRRSWLIQRYVEGYFLHP TGLELLVDHGSTDAGHWAVEQVWYNGKFY  
 GSPEELARKYADGEVDVVLEDPLPGGKGHDSTEEP PLFSSHKPRGDFPSPHVS  
 PRLVQPHGPRFRLEGNAVLYGGWSFAFRLRSSSGLQVLNVHFGGE RIAYEVSQVE  
 AVALYGGHTPAGMQTKYLDVGWGLGSVTHELAPGIDCPETATFLDTFHYYDADDP  
 VHYPALCLFEMPTGVPLRRHFNSNFKGGFNFYAGLKGQVLVLRRTTSTVYNYDIW  
 DFIFYPNGV MEAKMHATGYVHATFYTPEGLRHGTRLHTHLIGNIHTHLVHYRVDLDV  
 AGTKNSFQTLQMKLENI TNPWSPRHRVVQPTLEQTQYSWERQAAFRFKRKLPKYL  
 LFTSPQENPWGHKRSYRLQIHSMADQV LPPGWQEEQAITWARYPLAVTKYRESEL  
 CSSSIYHQNDPWPDPVVFQFLHNNENIENEDLVAWV TVGFLHIPHSEDIPNTATPG  
 NSVGFLLRPFNFFPEDPSLASRDTVIVWPRDNGPNYVQRWIPEDR DCSMPPPFYSY

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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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