

Recombinant Human CHRNA5

Cat. No. CHRNA5-30389TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human Nicotinic Acetylcholine Receptor alpha 5 with a N terminal proprietary tag: predicted molecular weight 35.97 kDa inclusive of tag.
Species	Human
Source	Wheat Germ
ProteinLength	94 amino acids
Description	The protein encoded by this gene is a nicotinic acetylcholine receptor subunit and a member of a superfamily of ligand-gated ion channels that mediate fast signal transmission at synapses. These receptors are thought to be heteropentamers composed of separate but similar subunits. Defects in this gene have been linked to susceptibility to lung cancer type 2 (LNCR2).
Molecular Weight	35.970kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

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Sequences of amino acids	SEPSSIAKHEDSLLKDLFQDYERWVRPVEHLNDKIKIKFGLAISQLVDVDEKNQLMTT NVWLKQEWIDVKLRWNPDDYGGIKVIRVPSDSVWTP
Sequence Similarities	Belongs to the ligand-gated ion channel (TC 1.A.9) family. Acetylcholine receptor (TC 1.A.9.1) subfamily. Alpha-5/CHRNA5 sub-subfamily.
GENE INFORMATION	
Gene Name	CHRNA5 cholinergic receptor, nicotinic, alpha 5 [Homo sapiens]
Official Symbol	CHRNA5
Synonyms	CHRNA5; cholinergic receptor, nicotinic, alpha 5; cholinergic receptor, nicotinic, alpha polypeptide 5; neuronal acetylcholine receptor subunit alpha-5;
Gene ID	1138
mRNA Refseq	NM_000745
Protein Refseq	NP_000736
MIM	118505
Uniprot ID	P30532
Chromosome Location	15q24
Pathway	Acetylcholine Binding And Downstream Events, organism-specific biosystem; Activation of Nicotinic Acetylcholine Receptors, 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;

Function

acetylcholine binding; acetylcholine receptor activity; acetylcholine-activated cation-selective channel activity; acetylcholine-activated cation-selective channel activity; extracellular ligand-gated ion channel activity;

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