Recombinant Human CHRNA1

Cat. No. CHRNA1-30388TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human Nicotinic Acetylcholine Receptor alpha 1 with N terminal proprietary tag, 35.09kDa.
Species	Human
Source	Wheat Germ
ProteinLength	86 amino acids
Description	The muscle acetylcholine receptor consiststs of 5 subunits of 4 different types: 2 alpha isoforms and 1 each of beta, gamma, and delta subunits.2 This gene encodes an alpha subunit that plays a role in acetlycholine binding/channel gating. Alternatively spliced transcript variants encoding different isoforms have been identified.
Molecular Weight	35.090kDa inclusive of tags
Tissue specificity	Isoform 1 is only expressed in skeletal muscle. Isoform 2 is constitutively expressed in skeletal muscle, brain, heart, kidney, liver, lung and thymus.
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl

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Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	SYCEIIVTHFPFDEQNCSMKLGTWTYDGSVVAINPESDQPDLSNFMESGEWVIKESR GWKHSVTYSCCPDTPYLDITYHFVMQRLP
Sequence Similarities	Belongs to the ligand-gated ion channel (TC 1.A.9) family. Acetylcholine receptor (TC 1.A.9.1) subfamily. Alpha-1/CHRNA1 sub-subfamily.

GENE INFORMATION

Gene Name	CHRNA1 cholinergic receptor, nicotinic, alpha 1 (muscle) [Homo sapiens]
Official Symbol	CHRNA1
Synonyms	CHRNA1; cholinergic receptor, nicotinic, alpha 1 (muscle); cholinergic receptor, nicotinic, alpha polypeptide 1 (muscle) , CHRNA; acetylcholine receptor subunit alpha;
Gene ID	1134
mRNA Refseq	NM_000079
Protein Refseq	NP_000070
MIM	100690
Uniprot ID	P02708
Chromosome Location	2q24-q32

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Pathway	Acetylcholine Binding And Downstream Events, organism-specific biosystem; Activation of Nicotinic Acetylcholine Receptors, organism-specific biosystem; Effects of Botulinum toxin, organism-specific biosystem; ErbB2/ErbB3 signaling events, organism-specific biosystem; Highly calcium permeable nicotinic acetylcholine receptors, organism-specific biosystem;
Function	contributes_to acetylcholine binding; contributes_to acetylcholine receptor activity; acetylcholine-activated cation-selective channel activity; contributes_to acetylcholine-activated cation-selective channel activity; extracellular ligand-gated ion chann;

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