Recombinant Human CHRNE

Cat. No. CHRNE-29131TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment Human Nicotinic Acetylcholine Receptor epsilon with N-terminal proprietary tag.Mol Wt 37.73 kDa inclusive of tag.
Species	Human
Source	Wheat Germ
ProteinLength	110 amino acids
Description	Acetylcholine receptors at mature mammalian neuromuscular junctions are pentameric protein complexes composed of four subunits in the ratio of two alpha subunits to one beta, one epsilon, and one delta subunit. The acetylcholine receptor changes subunit composition shortly after birth when the epsilon subunit replaces the gamma subunit seen in embryonic receptors. Mutations in the epsilon subunit are associated with congenital myasthenic syndrome.
Molecular Weight	37.730kDa 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

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	cycles.
Sequences of amino acids	KNEELRLYHHLFNNYDPGSRPVREPEDTVTISLKVTLTNL ISLNEKEETLTTSVWIGID WQDYRLNYSKDDFGGIETLRV PSELVWLPEIVLENNIDGQFGVAYDANVLV
Sequence Similarities	Belongs to the ligand-gated ion channel (TC 1.A.9) family. Acetylcholine receptor (TC 1.A.9.1) subfamily. Epsilon/CHRNE sub-subfamily.

GENE INFORMATION

Gene Name	CHRNE cholinergic receptor, nicotinic, epsilon [Homo sapiens]
Official Symbol	CHRNE
Synonyms	CHRNE; cholinergic receptor, nicotinic, epsilon; cholinergic receptor, nicotinic, epsilon polypeptide; acetylcholine receptor subunit epsilon; ACHRE;
Gene ID	1145
mRNA Refseq	NM_000080
Protein Refseq	NP_000071
MIM	100725
Uniprot ID	Q04844
Chromosome Location	17p13.2
Pathway	Acetylcholine Binding And Downstream Events, organism-specific biosystem; Activation of Nicotinic Acetylcholine Receptors, organism-specific biosystem;

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	ErbB2/ErbB3 signaling events, organism-specific biosystem; Highly sodium permeable acetylcholine nicotinic receptors, organism-specific biosystem; Neuroactive ligand-receptor interaction, organism-specific biosystem;
Function	acetylcholine receptor activity; acetylcholine-activated cation-selective channel activity; cation transmembrane transporter activity; extracellular ligand-gated ion channel activity; ion channel activity;

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