Recombinant Human CHRNB3 protein, His & T7-tagged

Cat. No. CHRNB3-7893H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CHRNB3 aa. (Glu119~Arg230 (Accession # Q05901)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Glu119~Arg230
Description	The nicotinic acetylcholine receptors (nAChRs) are members of a superfamily of ligand-gated ion channels that mediate fast signal transmission at synapses. The nAChRs are (hetero)pentamers composed of homologous subunits. The subunits that make up the muscle and neuronal forms of nAChRs are encoded by separate genes and have different primary structure. There are several subtypes of neuronal nAChRs that vary based on which homologous subunits are arranged around the central channel. They are classified as alpha-subunits if, like muscle alpha-1 (MIM 100690), they have a pair of adjacent cysteines as part of the presumed acetylcholine binding site. Subunits lacking these cysteine residues are classified as beta-subunits (Groot Kormelink and Luyten, 1997 [PubMed 9009220]). Elliott et al. (1996) [PubMed 8906617] stated that the proposed structure for each subunit is a conserved N-terminal extracellular domain followed by 3 conserved transmembrane domains, a variable cytoplasmic loop, a fourth conserved transmembrane domain, and a short C-terminal extracellular region.

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Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 16.6kDa
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>95%
Characteristic	The isoelectric point is 5.4.
Applications	SDS-PAGE; WB; ELISA; IP
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage Buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	CHRNB3 cholinergic receptor nicotinic beta 3 subunit [Homo sapiens (human)]
Official Symbol	CHRNB3

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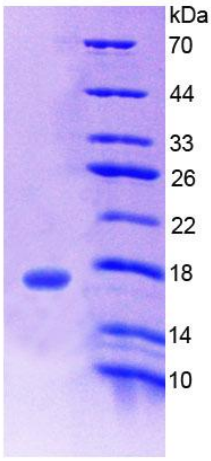
Synonyms	CHRNB3; cholinergic receptor nicotinic beta 3 subunit; neuronal acetylcholine receptor subunit beta-3; acetylcholine receptor, neuronal nicotinic, beta-3 subunit; acetylcholine receptor, nicotinic, beta 3 (neuronal); cholinergic receptor, nicotinic beta 3; cholinergic receptor, nicotinic, beta 3 (neuronal); cholinergic receptor, nicotinic, beta polypeptide 3
Gene ID	1142
mRNA Refseq	NM_000749.4
Protein Refseq	NP_000740.1
UniProt ID	Q05901
SDS-PAGE	 15% SDS-PAGE

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