

Recombinant Human CHRNB2, His-tagged

Cat. No. CHRNB2-11217H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CHRNB2 protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
Species	Human
Source	E.coli
ProteinLength	26-237a.a.
Description	Neuronal acetylcholine receptors are homo- or heteropentameric complexes composed of homologous alpha and beta subunits. They belong to a superfamily of ligand-gated ion channels which allow the flow of sodium and potassium across the plasma membrane in response to ligands such as acetylcholine and nicotine. This gene encodes one of several beta subunits. Mutations in this gene are associated with autosomal dominant nocturnal frontal lobe epilepsy.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 300mM Imidazole and 0.7% Sarcosyl, 15%glycerol.

GENE INFORMATION

Gene Name	CHRNB2 cholinergic receptor, nicotinic, beta 2 (neuronal) [Homo sapiens]
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Official Symbol	CHRNA2
Synonyms	CHRNA2; cholinergic receptor, nicotinic, beta 2 (neuronal); cholinergic receptor, nicotinic, beta polypeptide 2 (neuronal); neuronal acetylcholine receptor subunit beta-2; acetylcholine receptor; nicotinic; beta 2 (neuronal); neuronal nicotinic acetylcholine receptor beta 2; acetylcholine receptor, nicotinic, beta 2 (neuronal); EFNL3; nAChRB2;
Gene ID	1141
mRNA Refseq	NM_000748
Protein Refseq	NP_000739
MIM	118507
UniProt ID	P17787
Chromosome Location	1q21.3
Pathway	Acetylcholine Binding And Downstream Events, organism-specific biosystem; 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; Highly sodium permeable acetylcholine nicotinic receptors, organism-specific biosystem; Neuroactive ligand-receptor interaction, organism-specific biosystem;
Function	acetylcholine binding; acetylcholine binding; acetylcholine receptor activity; acetylcholine-activated cation-selective channel activity; acetylcholine-activated

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cation-selective channel activity; extracellular ligand-gated ion channel activity;
ligand-ga

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