Recombinant Human CHRNB3 Protein, GST-Tagged

Cat. No. CHRNB3-1288H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CHRNB3 full-length ORF (NP_000740.1, 1 a.a. - 458 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
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.[supplied by OMIM, Apr 2010]
Molecular Mass	79.1 kDa

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AA Sequence	MLPDFMLVLIVLGIPSSATTGFNSIAENEDALLRHLFQGYQKWVRPVLHSNDTIKVYF GLKISQLVDVDEKNQLMTTNVWLKQEWTDHKLRWNPDDYGGIHSIKVPSESLWLPD IVLFENADGRFEGSLMTKVIVKSNGTVVWTPPASYKSSCTMDVTFFPFDRQNCSMK FGSWTYDGTMVDLILINENVDRKDFFDNGEWEILNAKGMKGNRRDGVYSYPFITYSF VLRRLPLFYTLFLIIPCLGLSFLTVLVFYLPSDEGEKLSLSTSVLVSLTVFLLVIEEIIPSS SKVIPLIGEYLLFIMIFVTLSIIVTVFVINVHHRSSSTYHPMAPWVKRLFLQKLPKLLCMK DHVDRYSSPEKEESQPVVKGKVLEKKKQKQLSDGEKVLVAFLEKAADSIRYISRHVK KEHFISQVVQDWKFVAQVLDRIFLWLFLIVSVTGSVLIFTPALKMWLHSYH
Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	CHRNB3 cholinergic receptor, nicotinic, beta 3 (neuronal) [Homo sapiens]
Official Symbol	CHRNB3
Synonyms	CHRNB3; cholinergic receptor, nicotinic, beta 3 (neuronal); cholinergic receptor, nicotinic, beta polypeptide 3; neuronal acetylcholine receptor subunit beta-3; acetylcholine receptor; nicotinic; beta 3 (neuronal); acetylcholine receptor, nicotinic, beta 3 (neuronal); acetylcholine receptor, neuronal nicotinic, beta-3 subunit;
Gene ID	1142

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mRNA Refseq	NM_000749
Protein Refseq	NP_000740
MIM	118508
UniProt ID	Q05901

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