

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

MLPDFMLVLIVLGISSATTGFNSIAENEDALLRHLFQGYQKWVRPVLHSNDTIKVYF
 GLKISQLVDVDEKNQLMTTNVWLKQEWTDHKLRWNPDDYGGIHSIKVPSESLWLPD
 IVLFENADGRFEGSLMTKVIVKSNGTVVWTPPASYKSSCTMDVTFPPFDRQNC SMK
 FGSWTYDGT MVDLILINENVDRKDDFNGEWEILNAKGMKGNRRDGVYSYFPFITYSF
 VLRRPLFYTLFLIIPCLGLSFLT VLVFYLP SDEGEKLSLSTSVLVSLTVFLLVIEEIPSS
 SKVIPLIGEYLLFIMIFVTL SIIVTVFVINVHHRSSSTYHPMAPWVKRFLQKLPKLLCMK
 DHVDRYSSPEKEESQPVVKGKVLKQKQLSDGEKVLVAFLEKAADSIRYISRHVK
 KEHFISQVVQDWKFVAQVLDRIFLWFLIVSVTGSVLIFTPALKMWLHSYH

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 [CHRN3 cholinergic receptor, nicotinic, beta 3 \(neuronal\) \[Homo sapiens \]](#)

Official Symbol [CHRN3](#)

Synonyms CHRN3; 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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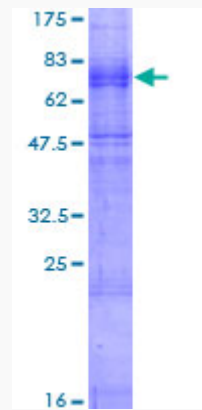
mRNA Refseq NM_000749

Protein Refseq NP_000740

MIM 118508

UniProt ID Q05901

**Quality Control
Testing**



12.5% SDS-PAGE Stained with Coomassie Blue.

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