

# Recombinant Full Length Human CHRN3 Protein, GST-tagged

Cat. No. CHRN3-3261HF Lot. No. (See product label)

## SPECIFICATION

### Product Overview

Human CHRN3 full-length ORF (NP\_000740.1, 1 a.a. - 458 a.a.) recombinant protein with GST-tag at N-terminal.

### Species

Human

### Source

In Vitro Cell Free System

### ProteinLength

458 amino acids

### 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]

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<b>Molecular Mass</b>	79.1 kDa
<b>AA Sequence</b>	MLPDFMLVLIVLGIPSSATTGFNSIAENEDALLRHLFQGYQKWVRPVLHSNDTIKVVYF GLKISQLVDVDEKNQLMTTNVWLKQEWDHKLRLWNPDDYGGIHSIKVPSESLWLPD IVLFENADGRFEGSLMTKVIVKSNGTVVWTPPASYKSSCTMDVTFFPFDRQNCSMK FGSWTYDGTMVLDLILINENVDRKDDFDNGEWEILNAKGMKGNRRDGVYSYFPITYSF VLRRLPLFYTLFLIIPCLGLSFLTVLVLYLPSDEGEKLSLSTSVLVSLTVFLLVIEEIPSS SKVIPLIGEYLLFIMIFVTLIIIVTVFVINVHHRSSSTYHPMAPWVKRFLQKLPKLLCMK DHVDYSSPEKEESQPVVKGKVLKQKQLSDGEKVLVAFLEKAADSIRYISRHVK KEHFISQVVQDWKFVAQVLDRIFLWFLIVSVTGSVLIFTPALKMWLHSYH
<b>Applications</b>	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
<b>Storage</b>	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

<b>Gene Name</b>	CHRNA3 cholinergic receptor, nicotinic, alpha 3 (neuronal) [ Homo sapiens ]
<b>Official Symbol</b>	CHRNA3
<b>Synonyms</b>	CHRNA3; cholinergic receptor, nicotinic, alpha 3 (neuronal); cholinergic receptor, nicotinic, alpha polypeptide 3; neuronal acetylcholine receptor subunit alpha-3; acetylcholine receptor; nicotinic; alpha 3 (neuronal); acetylcholine receptor, nicotinic, alpha 3 (neuronal); acetylcholine receptor, neuronal nicotinic, alpha-3 subunit;

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Gene ID	1142
mRNA Refseq	NM_000749
Protein Refseq	NP_000740
MIM	118508
UniProt ID	Q05901

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