

Recombinant Human CHRNA3, His-tagged

Cat. No. CHRNA3-86H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant human CHRNA3 protein, fused to His-tag at N-terminus, was expressed in E.coli.

Species Human

Source E.coli

Description CHRNA3 also known as neuronal acetylcholine receptor subunit alpha-3 isoform 1 is a member of the nicotinic acetylcholine receptor family of proteins. Members of this family of proteins form pentameric complexes comprised of both alpha and beta subunits. CHRNA3 is a ligand-gated ion channel that likely plays a role in neurotransmission. CHRNA3 have been associated with an increased risk of smoking initiation and an increased susceptibility to lung cancer. Alternatively spliced transcript variants have been described.

Form Liquid. In 20mM Tris-HCl buffer(pH8.0) containing 10% glycerol

Molecular Mass 27kDa (232aa)

AA Sequence MGSSHHHHHH SGLVPRGSH MGSSEAEHRL FERLFEDYNE IIRPVANVSD
 PVIIHFEVSM SQLVKVDEVN QIMETNLWLK QIWNDYKLLW NPSDYGGAEF
 MRVPAQKIWK PDIVLYNNAV GDFQVDDKTK ALLKYTG EVT WIPPAIFKSS
 CKIDVTYFPF DYQNCTMKFG SWSYDKAKID LVLIGSSMNL KDYWESGEWA
 IIKAPGYKHD IKYNCCEEIY PDITYSLYIR RL

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Purity	>80% by SDS - PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	1mg/ml (determined by assay)

GENE INFORMATION

Gene Name	CHRNA3 cholinergic receptor, nicotinic, alpha 3 (neuronal) [Homo sapiens]
Official Symbol	CHRNA3
Synonyms	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); neuronal nicotinic acetylcholine receptor, alpha3 subunit; LNCR2; PAOD2; NACHRA3; MGC104879;
Gene ID	1136
mRNA Refseq	NM_000743
Protein Refseq	NP_000734
MIM	118503
UniProt ID	P32297
Chromosome Location	15q24
Pathway	Acetylcholine Binding And Downstream Events, organism-specific biosystem;

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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 receptor activity; acetylcholine-activated cation-selective channel activity; acetylcholine-activated cation-selective channel activity; extracellular ligand-gated ion channel activity; ligand-gated ion channel activity; receptor activity;

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