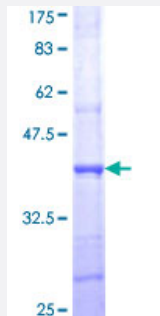


CHRNA4 (Human) Recombinant Protein (Q01)

Catalog # H00001137-Q01

Size 10 ug, 25 ug

Applications



Specification

Product Description	Human CHRNA4 partial ORF (NP_000735, 29 a.a. - 128 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	HVETRAHAEERLLKKLFSGYNKWSRPVANISDVVLVRFGLSIAQLIDVDEKNQMMTTNVVVKQE WHDYKLRWDPADYENVTSIRIPSELWRPDMLYNN
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.74
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — CHRNA4

Entrez GeneID [1137](#)

GeneBank Accession# [NM_000744](#)

Protein Accession# [NP_000735](#)

Gene Name CHRNA4

Gene Alias BFNC, EBN, EBN1, FLJ95812, NACHR, NACHRA4, NACRA4

Gene Description cholinergic receptor, nicotinic, alpha 4

Omim ID [118504](#) [188890](#) [600513](#)

Gene Ontology [Hyperlink](#)

Gene Summary This gene encodes a nicotinic acetylcholine receptor, which belongs to a superfamily of ligand-gated ion channels that play a role in fast signal transmission at synapses. These pentameric receptors can bind acetylcholine, which causes an extensive change in conformation that leads to the opening of an ion-conducting channel across the plasma membrane. This protein is an integral membrane receptor subunit that can interact with either nAChR beta-2 or nAChR beta-4 to form a functional receptor. Mutations in this gene cause nocturnal frontal lobe epilepsy type 1. Polymorphisms in this gene that provide protection against nicotine addiction have been described. [provided by RefSeq]

Other Designations cholinergic receptor, nicotinic, alpha 4 subunit|cholinergic receptor, nicotinic, alpha polypeptide 4|neuronal nicotinic acetylcholine receptor alpha-4 subunit

Disease

- [Alcoholism](#)
- [Alcohol-Related Disorders](#)

- [Alzheimer disease](#)
- [Amphetamine-Related Disorders](#)
- [Amyotrophic lateral sclerosis](#)
- [Attention](#)
- [Attention Deficit Disorder with Hyperactivity](#)
- [Autistic Disorder](#)
- [Bipolar Disorder](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Cognition](#)
- [Cognition Disorders](#)
- [Cues](#)
- [Discrimination \(Psychology\)](#)
- [Disease Models](#)
- [DNA Damage](#)
- [Ductus Arteriosus](#)
- [Epilepsy](#)
- [Exfoliation Syndrome](#)
- [Genetic Predisposition to Disease](#)
- [Infant](#)
- [Memory](#)
- [Motor Neuron Disease](#)
- [NARP](#)
- [Neuropsychological Tests](#)
- [Obesity](#)
- [Ovarian Failure](#)

- [Parkinson disease](#)
- [Pattern Recognition](#)
- [Personality Assessment](#)
- [Polycystic Ovary Syndrome](#)
- [Prenatal Exposure Delayed Effects](#)
- [Psychological Tests](#)
- [Psychomotor Performance](#)
- [Psychoses](#)
- [Puberty](#)
- [Reaction Time](#)
- [Recognition \(Psychology\)](#)
- [Schizophrenia](#)
- [Schizophrenic Psychology](#)
- [Seizures](#)
- [Space Perception](#)
- [Thrombophilia](#)
- [Tobacco Use Disorder](#)
- [Verbal Learning](#)
- [Weight Gain](#)