

Product datasheet for TP314597L

OriGene Technologies, Inc.

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Nicotinic Acetylcholine Receptor alpha 4 (CHRNA4) (NM_000744) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Purified recombinant protein of Human cholinergic receptor, nicotinic, alpha 4 (CHRNA4), full

length, with C-terminal MYC/DDK tag, expressed in HEK293 cells, 1 mg

Species: Human Expression Host: HEK293

Expression cDNA Clone >RC214597 representing NM_000744 or AA Sequence: Red=Cloning site Green=Tags(s)

MELGGPGAPRLLPPLLLLLGTGLLRASSHVETRAHAEERLLKKLFSGYNKWSRPVANISDVVLVRFGLSI AQLIDVDEKNQMMTTNVWVKQEWHDYKLRWDPADYENVTSIRIPSELIWRPDIVLYNNADGDFAVTHLTK AHLFHDGRVQWTPPAIYKSSCSIDVTFFPFDQQNCTMKFGSWTYDKAKIDLVNMHSRVDQLDFWESGEWV

IVDAVGTYNTRKYECCAEIYPDITYAFVIRRLPLFYTINLIIPCLLISCLTVLVFYLPSECGEKITLCIS VLLSLTVFLLLITEIIPSTSLVIPLIGEYLLFTMIFVTLSIVITVFVLNVHHRSPRTHTMPTWVRRVFLD

IVPRLLLMKRPSVVKDNCRRLIESMHKMASAPRFWPEPEGEPPATSGTQSLHPPSPSFCVPLDVPAEPGP SCKSPSDQLPPQQPLEAEKASPHPSPGPCRPPHGTQAPGLAKARSLSVQHMSSPGEAVEGGVRCRSRSIQ YCVPRDDAAPEADGQAAGALASRNTHSAELPPPDQPSPCKCTCKKEPSSVSPSATVKTRSTKAPPPHLPL SPALTRAVEGVQYIADHLKAEDTDFSVKEDWKYVAMVIDRIFLWMFIIVCLLGTVGLFLPPWLAGMI

TRTRPLEQKLISEEDLAANDILDYKDDDDK**V**

Tag: C-Myc/DDK
Predicted MW: 69.9 kDa

Concentration: >0.05 μg/μL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional

chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience

some loss of protein during the filtration process.

Storage: Store at -80°C.





RefSeq ORF:

Stability: Stable for 12 months from the date of receipt of the product under proper storage and

handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: NP 000735

Locus ID: 1137

UniProt ID: P43681, Q59FV0, B4DK78

1881

RefSeq Size: 3773

Cytogenetics: 20q13.33

Synonyms: BFNC; EBN; EBN1; NACHR; NACHRA4; NACRA4

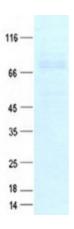
Summary: This gene encodes a nicotinic acetylcholine receptor, which belongs to a superfamily of ligand-

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. Alternative splicing results in multiple transcript variants. [provided by RefSeq,

Feb 2012]

Protein Families: Druggable Genome, Ion Channels: Cys-loop Receptors, Transmembrane

Product images:



Coomassie blue staining of purified CHRNA4 protein (Cat# [TP314597]). The protein was produced from HEK293T cells transfected with CHRNA4 cDNA clone (Cat# [RC214597]) using MegaTran 2.0 (Cat# [TT210002]).