

## Product datasheet for **TP314597**

### 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, 20 µg

**Species:** Human

**Expression Host:** HEK293

**Expression cDNA Clone or AA Sequence:** >RC214597 representing NM\_000744  
**Red**=Cloning site **Green**=Tags(s)

MELGGPGAPRLLPLLLLLGTGLLRASSHVETRAHAERLLKLFSGYNKWSRPVANISDVLVRFGLSI  
AQLIDVDEKNQMMTTNVVVKQEWHDYKLRWDPADYENVTSIRIPSELIWRPDIVLYNNADGDFAVTHLTK  
AHLFHDGRVQWTPPAIYKSSCSIDVTFPPFDQQNCTMKFGSWTYDKAKIDLVMHSRVDQLDFWESGEWW  
IVDAVGTYNTRKYECCAIEYDPDITYAFVIRRLPLFYTINLIIPCLLISCLTVLVFYL PSECGEKITLCLIS  
VLLSLTVFLLLITEIIPSTSLVIPLIGEYLLFTMIFVTL SIVITVFVLNVHHRSPRTHMTPTWVRRVFLD  
IVPRLLLMKRPSVVKDNCRRLIESMHKMASAPRFWPEPEGEPPATSGTQSLHPPSPSFCVPLDVPAEPGP  
SCKSPSDQLPPQPLEAEKASPHSPGCRPPHGTQAPGLAKARSLVQHMSSPGEAVEGGVRCRSRSIQ  
YCVPRDDAAPEADGQAAGALASRNTHSAELPPPDPSPCKCTCKKEPSSVSPSATVKTRSTKAPPPHLPL  
SPALTRAVEGVQYIADHLKAEDTDFSVKEDWKYVAMVIDRIFLWMFIIVCLLGTVGLFLPPWLAGMI

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**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.

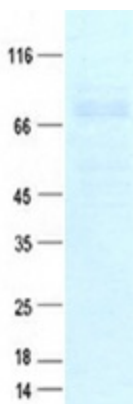
**Storage:** Store at -80°C.



[View online »](#)

<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_000735</a>
<b>Locus ID:</b>	1137
<b>UniProt ID:</b>	<a href="#">P43681</a> , <a href="#">Q59FV0</a> , <a href="#">B4DK78</a>
<b>RefSeq Size:</b>	3773
<b>Cytogenetics:</b>	20q13.33
<b>RefSeq ORF:</b>	1881
<b>Synonyms:</b>	BFNC; EBN; EBN1; NACHR; NACHRA4; NACRA4
<b>Summary:</b>	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]
<b>Protein Families:</b>	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]).