

Recombinant Human CHRNA4 Protein, Flag-tagged

Cat. No. CHRNA4-88H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CHRNA4 Protein is produced by HEK293 expression system. This protein is fused with a Flag tag at the C-terminal.
Species	Human
Source	HEK293
Description	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.
Form	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	69.9 kDa
AA Sequence	MELGGPGAPRLLPPLLLLLGTGLLRASSHVETRAHAEERLLKKLFSGYNKWSRPVAN ISDVVLVRFGLSIAQLIDVDEKNQMMTTNVVWKQEWHDYKLRWDPADYENVTSIRIP SELIWRPDIVLYNNADGDFAVTHLTKAHLFHDGRVQWTPPAIYKSSCSIDVTFFPFDQ QNCTMKFGSWTYDKAKIDLVMHSRVDQLDFWESGEWVIVDAVGTYNTRKYECCA

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EIYPDITYAFVIRRLPLFYTINLIIPCLLISCLTVLVFYLPSECGEKITLCISVLLSLTVFLLLI
 TEIIPSTSLVIPLIGEYLLFTMIFVTLISIVITVFVLNVHHRSPRTHMTPTWVRRVFLDIVP
 RLLLMKRPSVVKDNCRRLESMSHKMASAPRFWPEPEGEPPATSGTQSLHPPSPSFC
 VPLDVPAEPGPSCKSPSDQLPPQQPLEAEKASPHSPGPCRPPHGTQAPGLAKAR
 SLSVQHMSSPGEAVEGGVRCRSRSIQYCVPRDDAAPEADGQAAGALASRNTHSAE
 LPPPDQSPCKCTCKKEPSSVSPSATVKTRSTKAPPPHPLPLSPALTRAVEGVQYIAD
 HLKAEDTDFSVKEDWKYVAMVIDRIFLWMFIIVCLLGTVGLFLPPWLAGMITRTRPLE
 QKLISEEDLAANDILDYKDDDDKV

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

Stability Stable for at least 3 months from receipt of products under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

Storage Store at -80 centigrade after receiving vials.

Concentration >50 ug/mL as determined by microplate BCA method

GENE INFORMATION

Gene Name [CHRNA4 cholinergic receptor, nicotinic, alpha 4 \(neuronal\) \[Homo sapiens \]](#)

Official Symbol [CHRNA4](#)

Synonyms CHRNA4; cholinergic receptor, nicotinic, alpha 4 (neuronal); cholinergic receptor, nicotinic, alpha polypeptide 4 , EBN, EBN1; EBN; EBN1; NACHR; NACRA4; NACHRA4; FLJ95812;

Gene ID [1137](#)

mRNA Refseq [NM_000744](#)

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Protein Refseq	NP_000735
MIM	118504
UniProt ID	P43681

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