

PRODUCT INFORMATION

Tag	C-Flag&Strep Tag
Target	ACHA4
Synonyms	BFNC, EBN, EBN1, NACHR, NACHRA4, NACRA4
Description	Human ACHA4-Strep full length protein-synthetic nanodisc
Delivery	6~8weeks
Uniprot ID	P43681
Expression Host	HEK293
Protein Families	Ion Channels: Cys-loop Receptors
Protein Pathways	N/A
Molecular Weight	The human full length ACHA4-Strep protein has a MW of 70 kDa
Formulation & Reconstitution	Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions. Do not use solvents with a pH below 6.5 or those containing high concentrations of divalent metal ions (greater than 5 mM) in subsequent experiments.
Storage & Shipping	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
Background	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]
Usage	Research use only
Conjugate	Unconjugated

