

PRODUCT INFORMATION

Tag C-Flag Tag
Target ACHA7

Synonyms CHRNA7-2, NACHRA7

DescriptionHuman ACHA7 full length protein-synthetic

nanodisc

Delivery 6~8weeks

Uniprot ID P36544

Expression Host HEK293

Protein Families Ion Channels: Cys-loop Receptors

Protein Pathways N/A

Molecular Weight

The human full length ACHA7 protein has a MW of

56.4kDa

Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% - 8% trehalose is added as protectants before

- 8% trenaiose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution

for specific instructions of reconstitution. 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).

Storage & Shipping at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient

temperature.

The nicotinic acetylcholine receptors (nAChRs) are members of a superfamily of ligand-gated ion channels that mediate fast signal transmission at synapses. The nAChRs are thought to be heteropentamers composed of homologous subunits. The proposed structure for each subunit is a conserved N-terminal extracellular domain followed by three conserved transmembrane domains, a variable cytoplasmic loop, a fourth conserved transmembrane domain, and a short C-terminal extracellular region. The protein encoded by this gene forms a homo-oligomeric channel, displays marked permeability to calcium ions and is a major component of brain nicotinic

receptors that are blocked by, and highly sensitive to, alpha-bungarotoxin. Once this receptor binds acetylcholine, it undergoes an extensive change in conformation that affects all

subunits and leads to opening of an ion-conducting channel across the plasma membrane. This gene is located in a region identified as a major susceptibility locus for juvenile myoclonic epilepsy and a chromosomal location involved in the genetic transmission of schizophrenia. An evolutionarily recent partial duplication event in this region results in a hybrid containing sequence from this gene and a novel FAM7A gene. Alternative splicing results in

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multiple transcript variants. [provided by RefSeq, Feb 2012]

Usage Research use only
Conjugate Unconjugated

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Background

