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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Datasheet

CHRNA7 (Human) Recombinant Protein (P01)

Catalog Number: H00001139-P01

Regulation Status: For research use only (RUO)

Product Description: Human CHRNA7 full-length ORF (AAH37571, 1 a.a. - 321 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence:

MQEADISGYIPNGEWDLVGIPGKRSEFYECCKEYPY
DVTFTVTMRRRTLYYGLSLLIPCVLISALALLVFLLPADS
GEKISLGITVLLSLTVFMLLVAEIMPATSDSVPLIAQYFA
STMITVGLSVVVTIVLQYHHHDPDGGKMPKWTRVILL
NWCAWFLRMKRPGEDKVRPACQHKQRRCSLASVEM
SAVAPPPASNGNLLYIGFRGLDGVHCVPTPDSGVVCG
RMACSPHDEHLLHGGQPPEGDPDLAKILEEVRYIAN
RFRCQDESEAVCSEWKFAACVVDRLCLMAFSVFTIIC
IGILMSAPNFVEAVSKDFA

Host: Wheat Germ (in vitro)

Theoretical MW (kDa): 61.05

Applications: AP, Array, ELISA, WB-Re
(See our web site product page for detailed applications information)

Protocols: See our web site at
<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

Preparation Method: [in vitro wheat germ expression system](#)

Purification: Glutathione Sepharose 4 Fast Flow

Storage Buffer: 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction: Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 1139

Gene Symbol: CHRNA7

Gene Alias: CHRNA7-2, NACHRA7

Gene Summary: 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 hetero-pentamers 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. [provided by RefSeq]

References:

1. Increased antibodies for the alpha 7 subunit of the nicotinic receptor in schizophrenia. Chandley MJ, Miller MN, Newell Kwasigroch C, Wilson TD, Miller BE. Schizophr Res. 2009 Apr;109(1-3):98-101. Epub 2009 Feb 24.