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Recombinant Human CHRNA7 Protein, N-His

Catalog Number: bs-105777P

Species: Human

AA Seq: 118-227/502

Predicted MW: 14.48 kDa

Tags: N-His

Purity: >90% as determined by SDS-PAGE.

Purification: AC

Form: Lyophilized

Storage: Lyophilized from a solution in PBS pH 7.4, 0.02% NLS, 1mM EDTA, 4% Trehalose, 1%

Mannitol.

Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8°C for

frequent use. Store at -20 to -80°C for twelve months from the date of receipt.

Background: The Nicotinic Acetylcholine Receptors are members of a superfamily of ligand gated ion

channels that mediate fast signal transmission at synapses. These receptors 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 Nicotinic Acetylcholine Receptor alpha 7 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.