

Recombinant Human CHRNB3 Protein (His Tag)

Catalog No. PKSH032799

Note: Centrifuge before opening to ensure complete recovery of vial contents.

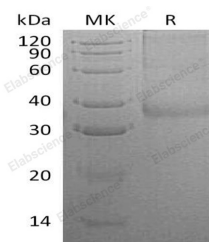
Description

Synonyms	Neuronal acetylcholine receptor subunit beta-3
Species	Human
Expression Host	HEK293 Cells
Sequence	Ile25-Leu232
Accession	Q05901
Calculated Molecular Weight	25.3 kDa
Observed molecular weight	30-40 kDa
Tag	C-His
Bioactivity	Not validated for activity

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Neuronal acetylcholine receptor subunit beta-3 (CHRNB3) is a cell membrane protein and belongs to the ligand-gated ion channel (TC 1.A.9) family. CHRNB3 seems to be composed of two different type of subunits: alpha and beta. The

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CHRNA3 are (hetero) pentamers composed of homologous subunits. The subunits that make up the muscle and neuronal forms of CHRNA3 are encoded by separate genes and have different primary structure. There are several subtypes of neuronal CHRNA3 that vary based on which homologous subunits are arranged around the central channel. They are classified as alpha-subunits if like muscle alpha-1, they have a pair of adjacent cysteines as part of the presumed acetylcholine binding site. Subunits lacking these cysteine residues are classified as beta-subunits.