

Recombinant Human NACHRA5/CHRNA5 Protein (His Tag)

Catalog No. PKSH033582

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

Description

Synonyms	Neuronal Acetylcholine Receptor Subunit Alpha-5;CHRNA5;NACHRA5
Species	Human
Expression Host	HEK293 Cells
Sequence	Arg23-Thr254
Accession	P30532
Calculated Molecular Weight	27.6 kDa
Observed molecular weight	35-47 kDa
Tag	C-His
Bioactivity	Not validated for activity

Properties

Purity	> 90 % 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 PBS, pH7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 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.

Background

Neuronal Acetylcholine Receptor Subunit α -5 (NACHRA5) is a member of the ligand-gated ion channel family. Neuronal AChR is composed of two different type of subunits: α and non- α . When NACHRA5 binds to acetylcholine, the AChR responds by an extensive change in conformation that affects all subunits, leading to the opening of an ion-conducting channel across the plasma membrane. Genetic variations in NACHRA5 have been related to susceptibility to smoking-related behavioral traits and lung cancer, contributing to the smoking quantitative trait locus 3.

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