



Recombinant Protein Technical Manual

**Recombinant Human NACHRA5/CHRNA5 Protein
(His Tag)**
RPES0832

Product Data:

Product SKU: RPES0832

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: P30532

Protein Information:

Molecular Mass: 27.6 kDa

AP Molecular Mass: 35-40 kDa

Tag: C-His

Bio-activity:

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

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°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, pH 7.4.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Neuronal Acetylcholine Receptor Subunit Alpha-5; CHRNA5; NACHRA5

Immunogen Information:

Sequence: Arg23-Thr254

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.