

## Recombinant Human NACHRA5/CHRNA5 Protein (His Tag)

**Catalog Number:** PKSH033582

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

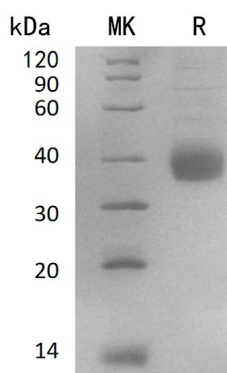
### Description

<b>Species</b>	Human
<b>Source</b>	HEK293 Cells-derived Human NACHRA5/CHRNA5 protein Arg23-Thr254, with an C-terminal His
<b>Calculated MW</b>	27.6 kDa
<b>Observed MW</b>	35-47 kDa
<b>Accession</b>	P30532
<b>Bio-activity</b>	Not validated for activity

### Properties

<b>Purity</b>	> 90 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	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.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
<b>Reconstitution</b>	Please refer to the specific buffer information in the printed manual.

### Data



### Background

Neuronal Acetylcholine Receptor Subunit  $\alpha$ -5 (NACHRA5) is a member of the ligand-gated ion channel family. Neuronal AChR is composed of two different type of subunits:  $\alpha$  and non- $\alpha$ . 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.