

# Recombinant human CHRNA6 protein

Catalog Number: ATGP2572

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

26-239aa

### UniProt No.

Q15825

### NCBI Accession No.

NP\_004189

### Alternative Names

Cholinergic receptor nicotinic alpha, Cholinergic receptor, nicotinic, alpha, CHNRA6

## PRODUCT SPECIFICATION

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### Molecular Weight

29.3 kDa (250aa)

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

### Purity

> 85% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE, Denatured

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

Cholinergic receptor, nicotinic, alpha 6, also known as CHRNA6, belongs to the nicotinic acetylcholine receptors (nAChRs) family. nAChRs are heteropentameric ligand-gated ion channels resulting from the assembly of alpha and beta protein subunits. This ion channel is gated by the binding of acetylcholine to the assembled receptor. Alpha 6 is often found associated with beta 3, beta 2, and alpha 4 subunits. CHRNA6 receptors have a relatively selective localization to the nigrostriatal pathway where they function to mediate dopamine release. Recombinant human CHRNA6 protein, fused to His-tag at N-terminus, was expressed in E. coli.

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### Amino acid Sequence

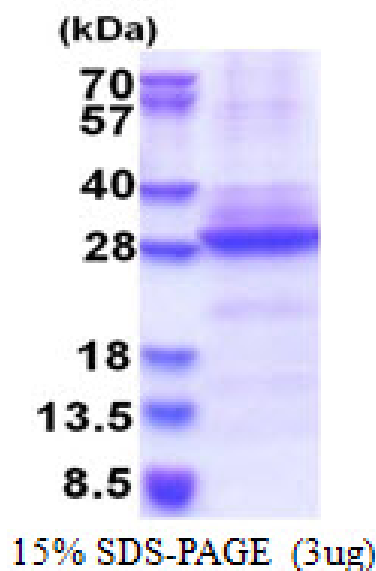
MRGSHHHHHH GMASMTGGGQ MGRDLYDDDD KDRWGSKGCV GCATEERLFH KLFSHYNQFI RPVENVSDPV  
TVHFEVAITQ LANVDEVNQi METNLWLRHI WNDYKLRWDP MEYDGIETLR VPADKIWKPD IVLYNNAVGD FQVEGKTKAL  
LKYNGMITWT PPAIFKSSCP MDITFFPFDH QNCSLKFGSW TYDKAEIDLL IIGSKVDMND FWENSEWEII DASGYKHDIK  
YNCCEEIYTD ITYSFYIRRL

### General References

Keskitalo Vuokko k., et al. (2011) Nicotine Tob Res. 13(8): 686-90.  
Groot Kormrlink P J., et al. (2004) J Gen Physiol. 123: 697-708.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.