# **PRODUCT INFORMATION**

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**

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

#### 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.



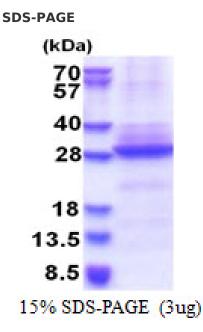
### **Amino acid Sequence**

MRGSHHHHHH GMASMTGGQQ 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



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

