## **PRODUCT INFORMATION**

**Expression system** E.coli

**Domain** 32-240aa

**UniProt No.** P32297

NCBI Accession No. NP\_000734

Alternative Names Neuronal acetylcholine receptor subunit alpha-3 isoform 1, LNCR2, NACHRA3, PAOD2

# **PRODUCT SPECIFICATION**

Molecular Weight 27 kDa (232aa)

**Concentration** 1mg/ml (determined by Bradford assay)

#### Formulation

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

Purity

> 80% 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

CHRNA3 also known as neuronal acetylcholine receptor subunit alpha-3 isoform 1 is a member of the nicotinic acetylcholine receptor family of proteins. Members of this family of proteins form pentameric complexes comprised of both alpha and beta subunits. CHRNA3 is a ligand-gated ion channel that likely plays a role in neurotransmission. CHRNA3 have been associated with an increased risk of smoking initiation and an increased susceptibility to lung cancer. Alternatively spliced transcript variants have been described. Recombinant human CHRNA3 protein, fused to His-tag at N-terminus, was expressed in E. coli.



#### **Amino acid Sequence**

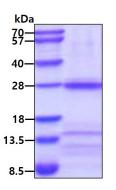
<MGSSHHHHHH SSGLVPRGSH MGS>SEAEHRL FERLFEDYNE IIRPVANVSD PVIIHFEVSM SQLVKVDEVN QIMETNLWLK QIWNDYKLKW NPSDYGGAEF MRVPAQKIWK PDIVLYNNAV GDFQVDDKTK ALLKYTGEVT WIPPAIFKSS CKIDVTYFPF DYQNCTMKFG SWSYDKAKID LVLIGSSMNL KDYWESGEWA IIKAPGYKHD IKYNCCEEIY PDITYSLYIR RL

#### **General References**

Criado JR., et al. (2014) Twin Res Him Genet. 17(2):80-8. Rempel N., et al. (1998) Hum. Genet. 103:645-653.

### DATA

#### SDS-PAGE



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

