Recombinant human CHRNA3 protein

Catalog Number: ATGP3106

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.

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Amino acid Sequence

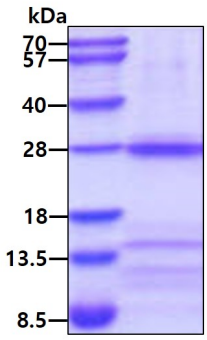
<MGSSHHHHHH SSGLVPRGSH MGS>SEAEHRL FERLFEDYNE IIRPVANVSD PVIIHFEVSM SQLVKVDEVN QIMETNLWLK QIWNDYKLKW NPSDYGGAEF MRVPAQKIWK PDIVLYNNAV GDFQVDDKTK ALLKYTGEVT WIPPAIFKSS CKIDVTYFPF DYQNCTMKFG SWSYDKAKID LVLIGSSMNL KDYWESGEWA IIKAPGYKHD IKYNCCEEIY PDITYSLYIR RL

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.