

Product Information

MemDX™ Membrane Protein Human CHRNA3 (Cholinergic receptor nicotinic alpha 3 subunit) Full Length

Cat. No.: **MPC0462K**

This product is for research use only and is not intended for diagnostic use.

This product is a 57.4 kDa Human CHRNA3 membrane protein expressed in HEK293. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Human

Target Protein

CHRNA3

Protein Length

Full length

Protein Class

Transporter; Ion channel

Molecular Weight

57.4 kDa

TMD

4

Sequence

MSGPLSLPLALSPPRLLLLLLLLSLLPVARASEAEHRLFERLFEDYNEII
RPVANVSDPVIIHFEVSMSQLVKVDEVNQIMETNLWLKQIWNDYKLKWNP
SDYGGAEFMRVPAQKIWKPDIVLYNNAVGDQVDDKTKALLKYTG EVTWI
PPAIFKSSCKIDVTYFPFDYQNCTMKFGSWSYDKAKIDLVLIGSSMNLKD
YWESGEWAIKAPGYKHDIKYNCC EEIYPDITYSLYIRRLPLFY TINLII
PCLLISFLT VLVFYLPSCDGEKVTLCISVLLSLTVFLLVITETIPSTSLV
IPLIGEYLLFTMIFVTLSIVITVFVLNVHYRTPTTHTMPSWVKTVFLNLL
PRVMFMTRPTSNEGNAQKPRPLYGAELSNLNCFSRAESKGCKEGYPCQDG
MCGYCHHRRIKISNFSANLTRSSSSSVDAVL SLSALSPEIKEAIQSVKY
IAENMKAQNEAKEIQDDWKYVAMVIDRIFLWVFTLVLCILGTAGLFLQPLM
AREDA

Product Description

Expression Systems

HEK293

Protein Format

Detergent or based on specific requirements

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

Target**Target Protein**

CHRNA3

Full Name

Cholinergic receptor nicotinic alpha 3 subunit

Introduction

This locus encodes 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. This locus encodes an alpha-type subunit, as it contains characteristic adjacent cysteine residues. The encoded protein is a ligand-gated ion channel that likely plays a role in neurotransmission. Polymorphisms in this gene have been associated with an increased risk of smoking initiation and an increased susceptibility to lung cancer. Alternatively spliced transcript variants have been described.

Alternative Names

LNCR2; PAOD2; BAIPRCK; NACHRA3; neuronal acetylcholine receptor subunit alpha-3; cholinergic receptor, nicotinic alpha 3; cholinergic receptor, nicotinic, alpha 3 (neuronal); cholinergic receptor, nicotinic, alpha polypeptide 3; neuronal nicotinic acetylcholine receptor, alpha3 subunit; CHRNA3; Cholinergic receptor nicotinic alpha 3 subunit

Gene ID

[1136](#)

UniProt ID

[P32297](#)