

Product Information

MemDX™ Membrane Protein Mouse Chrne (Cholinergic receptor, nicotinic, epsilon polypeptide) Expressed *in vitro* E.coli expression system, Full Length of Mature Protein

Cat. No.: **MPX2558K**

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

This product is a Mouse Chrne membrane protein expressed *in vitro* E.coli expression system. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Mouse

Target Protein

Chrne

Protein Length

Full Length of Mature Protein

Protein Class

Ion channel, Transport

TMD

4

Sequence

KNEELSLYHHLFDNYDPECRPVRRPEDTVTITLKVTLNLISLNEKEETLTTSVWIGIDWHDYRLNYSKDDFAGVGILRVPSEHVWLP

Product Description

Expression Systems

in vitro E.coli expression system

Tag

10xHis tag at the N-terminus

Protein Format

Soluble

Form

Liquid or Lyophilized powder

Buffer

Tris/PBS-based buffer, 6% Trehalose, pH 8.0

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

Chrne

Full Name

Cholinergic receptor, nicotinic, epsilon polypeptide

Introduction

This gene encodes the epsilon subunit of the muscle-derived nicotinic acetylcholine receptor, a pentameric neurotransmitter receptor and member of the ligand-gated ion channel superfamily. The acetylcholine receptor changes subunit composition shortly after birth when the epsilon subunit replaces the gamma subunit seen in embryonic receptors. In mice, deficiency of this gene can lead to a decline in the number of nicotinic acetylcholine receptors at neuromuscular junctions and causes progressive muscle weakness, atrophy and premature death. Mutations in this gene serve as a pathophysiological model for human congenital myasthenia. Several alternatively spliced transcript variants of this gene have been described, but their full-length nature is not known.

Alternative Names

Chrne; Ac; ACh; Acre; nAChRE; AChrepsilon; acetylcholine receptor subunit epsilon; AchR epsilon subunit; nicotinic acetylcholine receptor epsilon subunit; Cholinergic receptor, nicotinic, epsilon polypeptide

Gene ID

[11448](#)

UniProt ID

[P20782](#)