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Product Information

MemDX™ Membrane Protein Human TMX3 (Thioredoxin related transmembrane protein 3)

Full Length

Cat. No.: **MPC1362K**
This product is for research use only and is not intended for diagnostic use.

This product is a 51.8 kDa Human TMX3 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
TMX3

Protein Length
Full length

Protein Class
Transporter

Molecular Weight
51.8 kDa

TMD
1

Sequence
MAAWKSWTALRLCATVVVLDMVVCKGFVEDLDESFKENRNDDIWLVDFYA
PWCGHCKKLEPIWNEVGLEMKSIGSPVKVGKMDATSYSSIASEFGVRGYP
TIKLLKGDLAYNYRGPRTKDDIIEFAHRVSGALIRPLPSQQMFEHMQKRH
RVFFVYVGGESPLKEKYIDAASELIVYTYFFSASEEVVPEYVTLKEMPAV
LVFKDETYFVYDEYEDGDLSSWINRERFQNYLAMDGFLLYELGDTGKLVA
LAVIDEKNTSVEHTRLKSIIQEVARDYRDLFHRDFQFGHMDGNDYINTLL
MDELTVPTVVVLNTSNQQYFLLDRQIKNVEDMVQFINNILDGTVEAQGGD
SILQRLKRIVFDAKSTIVSIFKSSPLMGCFLFGLPLGVISIMCYGIYTAD
TDGGYIEERYEVSKSENENQEQIEESKEQQEPSSGGSVVPTVQEPKDVLE
KKKD

Product Description

Expression Systems
HEK293

Tag

Based on specific requirements

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

TMX3

Full Name

Thioredoxin related transmembrane protein 3

Introduction

This gene encodes a member of the disulfide isomerase (PDI) family of endoplasmic reticulum (ER) proteins that catalyze protein folding and thiol-disulfide interchange reactions. The canonical protein encoded by this gene has an N-terminal ER-signal sequence, a catalytically active thioredoxin domain, one transmembrane domain and a C-terminal ER-retention sequence. This gene is expressed in many tissues but has its highest expression in heart and skeletal muscle. It is expressed in the retinal neuroepithelium and lens epithelium in the developing murine eye and haploinsufficiency of this gene in humans and zebrafish is associated with microphthalmia. Alternative splicing results in multiple transcript variants encoding distinct isoforms.

Alternative Names

TMX3; PDIA13; TXNDC10; protein disulfide-isomerase TMX3; protein disulfide isomerase family A, member 13; thioredoxin domain containing 10; thioredoxin domain-containing protein 10; Thioredoxin related transmembrane protein 3

Gene ID

54495

UniProt ID

Q96JJ7

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