

Product Information

MemDX™ Membrane Protein Human PM20D1 (Peptidase M20 domain containing 1)

Cat. No.: **MP0252J**

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

This product is a 55.6 kDa Human PM20D1 membrane protein expressed in HEK293T. 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

PM20D1

Protein Length

Full-length

Protein Class

Transmembrane

Molecular Weight

55.6 kDa

Sequence

MAQRVCVCLALVAMLLLVFPTVSRSMGPRSGEHQSRASRIPSQFSKEERVAMKEALKGAIQIPTVTFSSSEK
SNTTALAEFGKYIHKVFPTVVSTSFQHEVVEEYSHLFTIQGSDPSLQPYLLMAHFDVVPAPEEGWEVPP
FSGLERDGVYWGWTLDKNSVMALLQALELLLRKYIPRRSFFISLGHDEESSGTGAQRISALLQSRGV
QLAFIVDEGGFILDFFIPNFKKPIALIAVSEKGSMLMLQVNMSTSGHSSAPPKETSIGILAAVSRLEQT
PMPIIFGSGTVVTVLQQLANEFPPVNIILSNPWLFEPLISRFMERNPLTNAIIRTTTALTIFKAGVKFN
VIPPVAQATVNFRIHPGQTVQEVLELTKNIVADNRVQFHVLSAFDPLPVSPSDDKALGYQLLRQTVQSVF
PEVNITAPVTSIGNTDSRFFTNLTGTIYRFYPIYIQPEDFKRIHGVNEKISVQAYETQVKFIFELIQNAD
TDQEPVSHLHKL

Product Description

Expression Systems

HEK293T

Tag

C-Myc/DDK

Form

Liquid

Purification

Anti-DDK affinity column followed by conventional chromatography steps

Purity

> 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer

25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol

Storage

Store at +4°C for up to one week or several months at -80°C

Target**Target Protein**

PM20D1

Full Name

Peptidase M20 domain containing 1

Introduction

Bidirectional N-fatty-acyl amino acid synthase/hydrolase that regulates the production of N-fatty-acyl amino acids. These metabolites are endogenous chemical uncouplers of mitochondrial respiration. In an UCP1-independent manner, maybe through interaction with mitochondrial transporters, they promote proton leakage into the mitochondrial matrix. Thereby, this secreted protein may indirectly regulate the bodily dissipation of chemical energy as heat through thermogenic respiration.

Alternative Names

Cps1; N-fatty-acyl-amino acid synthase/hydrolase PM20D1; peptidase M20 domain-containing protein 1; probable carboxypeptidase PM20D1

Gene ID

[148811](#)

UniProt ID

[Q6GTS8](#)