

Recombinant human TIMM8A protein

Catalog Number: ATGP2486

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-97aa

UniProt No.

O60220

NCBI Accession No.

NP_004076

Alternative Names

Mitochondrial import inner membrane translocase subunit Tim8 A, Mitochondrial import inner membrane translocase subunit Tim8 A, DDP, DDP1, DFN1, MTS, TIM8

PRODUCT SPECIFICATION

Molecular Weight

13.4 kDa (120aa) confirmed by MALDI-TOF

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 30% glycerol, 1mM DTT

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

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

TIMM8A is involved in the import and insertion of hydrophobic membrane proteins from the cytoplasm into the mitochondrial inner membrane. The gene is mutated in Mohr-Tranebjaerg syndrome/Deafness Dystonia Syndrome (MTS/DDS) and it is postulated that MTS/DDS is a mitochondrial disease caused by a defective mitochondrial protein import system. Defects in this gene also cause Jensen syndrome; an X-linked disease with opticoacoustic nerve atrophy and muscle weakness. This protein, along with TIMM13, forms a 70 kDa

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heterohexamer. Alternative splicing results in multiple transcript variants encoding distinct isoforms. Recombinant human TIMM8A protein, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography techniques.

Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MGSMDSSSSS SAAGLGAVDP QLQHFIEVET QKQRFQQLVH QMTELCWEKC
MDKPGPKLDS RAEACFVNCV ERFIDTSQFI LNRLEQTQKS KPVFSESLSD

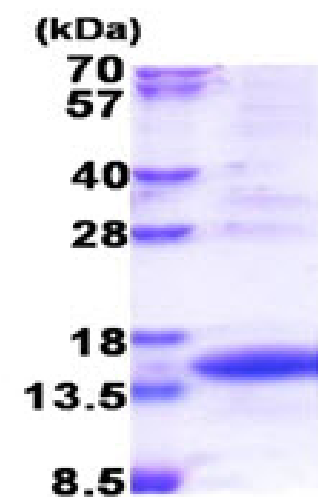
General References

Rothbauer u., et al. (2001) *J. Biol. Chem.* 276:37327-37334

Roesch K., et al. (2004) *Hum. Mol. Genet.* 13:2101-2111

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)