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# **Recombinant human MTPN protein**

Catalog Number: ATGP0621

# **PRODUCT INFORMATION**

## **Expression system**

E.coli

#### **Domain**

1-118aa

#### UniProt No.

P58546

#### **NCBI Accession No.**

NP 665807

#### **Alternative Names**

Myotrophin, Protein V-1, GCDP, Myotrophin, Protein V 1, Protein V1,

# PRODUCT SPECIFICATION

## **Molecular Weight**

15 kDa (138aa) confirmed by MALDI-TOF

#### Concentration

1mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

#### **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**

MTPN (myotrophin), an ankyrin repeat protein, is stimulates protein synthesis and cardiomyocyte growth to initiate cardiac hypertrophy by activating the NF-kappaB signaling cascade. This protein plays a potential role in cerebellar morphogenesis and may function in differentiation of cerebellar neurons, particularly of granule cells. Elevated levels of MTPN are expressed in human dilated cardiomyopathic and ischemic hearts. Recombinant human MTPN, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.



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# **Amino acid Sequence**

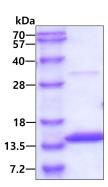
<MGSSHHHHHH SSGLVPRGSH> MCDKEFMWAL KNGDLDEVKD YVAKGEDVNR TLEGGRKPLH YAADCGQLEI LEFLLLKGAD INAPDKHHIT PLLSAVYEGH VSCVKLLLSK GADKTVKGPDGLTAFEATDN QAIKALLQ

## **General References**

Sen S., et al. (2008) J Biol Chem. 283(41):27947-56. Sivasubramanian N., et al (2002) J Biol Chem. 277(26):23888-97.

# **DATA**

# SDS-PAGE



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

