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# Recombinant human MPI protein

Catalog Number: ATGP1192

# **PRODUCT INFORMATION**

### **Expression system**

E.coli

#### **Domain**

1-362aa

#### **UniProt No.**

P34949

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

AAH17351

#### **Alternative Names**

Mannose-6-phosphate isomerase, PMI, PMI1

#### PRODUCT SPECIFICATION

### **Molecular Weight**

41.9 kDa (382aa)

#### Concentration

0.5mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 5% 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**

Mannose-6-phosphate isomerase, also known as MPI, belongs to the mannose-6-phosphate isomerase type 1 family, and is expressed in all tissues, more abundantly in heart, brain and skeletal muscle. Localized to the cytoplasm, MPI utilizes zinc as a cofactor and catalyzes the interconversion of fructose-6-phosphate and mannose-6-phosphate. Mutations in the MPI gene were found in patients with carbohydrate-deficient glycoprotein syndrome, type lb.



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# **Amino acid Sequence**

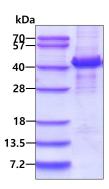
MGSSHHHHHH SSGLVPRGSH MAAPRVFPLS CAVQQYAWGK MGSNSEVARL LASSDPLAQI AEDKPYAELW MGTHPRGDAK ILDNRISQKT LSQWIAENQD SLGSKVKDTF NGNLPFLFKV LSVETPLSIQ AHPNKELAEK LHLQAPQHYP DANHKPEMAI ALTPFQGLCG FRPVEEIVTF LKTAAGNNME DIFGELLLQL HQQYPGDIGC FAIYFLNLLT LKPGEAMFLE ANVPHAYLKG DCVECMACSD NTVRAGLTPK FIDVPTLCEM LSYTPSSSKD RLFLPTRSQE DPYLSIYDPP VPDFTIMKTE VPGSVTEYKV LALDSASILL MVQGTVIAST PTTQTPIPLQ RGGVLFIGAN ESVSLKLTEP KDLLIFRACC LL

#### **General References**

Schollen E., et al. (2000) Hum Mutat. 16:247-252. Proudfoot A E., et al. (1996) Biochem J. 318:437-442.

# **DATA**

#### **SDS-PAGE**



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

