

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 Ib.

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Amino acid Sequence

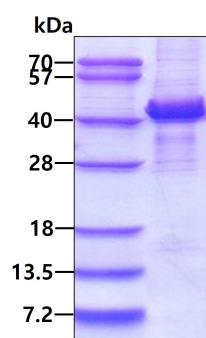
MGSSHHHHHH SSGLVPRGSH MAAPRVFPLS CAVQQYAWGK MGSNSEVARL LASSDPLAQI AEDKPYAELW
MGTHPRGDAK ILDNRIQKT LSQWIAENQD SLGSKVKDTF NGNLPFLFKV LSVETPLSIQ AHPNKELAEK LHLQAPQHYP
DANHKPEMAI ALTPFQGLCG FRPVVEIVTF LKTAAGNME DIFGELLQL HQQYPGDIGC FAIYFLNLLT LKPGEAMFLE
ANVPHAYLKG DCVECMACSD NTVRAGLTPK FIDVPTLCEM LSYTPSSSKD RLFLPTRSQE DPYLSIYDPP VPDFTIMKTE
VPGSVTEYKV LALDSASILL MVQGTVIASPTTQTPIPLQ 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



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