

MPI, 1-362aa, Human, His tag, E.coli

Cat.NO.: TP03011

3th Edition

Synonyms:Mannose-6-phosphate isomerase, PMI, PMI1.

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.

Form:Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 5% glycerol

Molecular Weight:41.9 kDa (382aa)

Sequences:

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MGSSHHHHHSSGLVPRGSHMAAPRVFPLSCAVQQYAWGKMGSNSEVARLLASSDPLAQIAEDKPYAELWMGT  
HPRGDAKILDNRISQKTL SQWIAENQDSL GSKVKDTFN GNLPFLFKVLSVETPLSIQAHPNKELAEK LHLQAPQHYP  
DANHKPEMAIALTPFQGLCGFRPV EEEIVTFLKTAAGNNMEDIFGELLQLHQQYPGDIGCF AIYFLNLLTLKPG EAMF  
LEANVPHAYLKGD CVEC MACSDNTVRAGLTPKFIDVPTLCEMLS YTPSSSKDRLFLP TRSQEDPYLSIYDPPVPDFT  
IMKTEVPGSVTEYKVLALDSASILLMVQGTVIASPTTQTPIPLQRGGVLFIGANESVSLKLT EPKDLLIFRACCLL
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Purity:> 95% by HPLC

Concentration:0.5 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.