Recombinant Human MPI, His-tagged

Cat. No. MPI-29812TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Mannose Phosphate Isomerase, isoform 2 with an N terminal His tag; 382aa, 41.9kDa.
Species	Human
Source	E.coli
ProteinLength	362 amino acids
Description	Phosphomannose isomerase catalyzes the interconversion of fructose-6-phosphate and mannose-6-phosphate and plays a critical role in maintaining the supply of D-mannose derivatives, which are required for most glycosylation reactions.Mutations in the MPI gene were found in patients with carbohydrate-deficient glycoprotein syndrome, type Ib.
Conjugation	HIS
Molecular Weight	41.900kDa inclusive of tags
Tissue specificity	Expressed in all tissues, but more abundant in heart, brain and skeletal muscle.
Form	Liquid
Purity	>90% by SDS-PAGE

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Storage buffer	pH: 8.00Constituents:0.32% Tris HCl, 2.4% Urea
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHHSSGLVPRGSHMAAPRVFPLSCAVQQYAWGKMGSNSEVARLLASS DPLAQIAEDKPYAELWMGTHPRGDAKILDNRISQKTLSQWIAENQDSLGSKVKDTFN GNLPFLFKVLSVETPLSIQAHPNKELAEKLHLQAPQHYPDANHKPEMAIALTPFQGLC GFRPVEEIVTFLKTAAGNNMEDIFGELLLQLHQQYPGDIGCFAIYFLNLLTLKPGEAM FLEANVPHAYLKGDCVECMACSDNTVRAGLTPKFIDVPTLCEMLSYTPSSSKDRLFL PTRSQEDPYLSIYDPPVPDFTIMKTEVPGSVTEYKVLALDSASILLMVQGTVIASTPTT QTPIPLQRGGVLFIGANESVSLKLTEPKDLLIFRACCLL
Sequence Similarities	Belongs to the mannose-6-phosphate isomerase type 1 family.

GENE INFORMATION

Gene Name	MPI mannose phosphate isomerase [Homo sapiens]
Official Symbol	MPI
Synonyms	MPI; mannose phosphate isomerase; mannose-6-phosphate isomerase; mannose 6 phosphate isomerase;
Gene ID	4351
mRNA Refseq	NM_002435
Protein Refseq	NP_002426

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MIM	154550
Uniprot ID	P34949
Chromosome Location	15q22-qter
Pathway	Amino sugar and nucleotide sugar metabolism, organism-specific biosystem; Amino sugar and nucleotide sugar metabolism, conserved biosystem; Asparagine N-linked glycosylation, organism-specific biosystem; Biosynthesis of the N-glycan precursor (dolichol lipid-linked oligosaccharide, LLO) and transfer to a nascent protein, organism-specific biosystem; Fructose and mannose metabolism, organism-specific biosystem;
Function	isomerase activity; mannose-6-phosphate isomerase activity; metal ion binding; zinc ion binding;

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