

Recombinant Human MPI Protein, MYC/DDK-tagged, C13 and N15-labeled

Cat. No. MPI-162H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MPI MS Standard C13 and N15-labeled recombinant protein (NP_002426) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014]
Molecular Mass	46.7 kDa
AA Sequence	MAAPRVFPLSCAVQQYAWGKMGSNSEVARLLASSDPLAQIAEDKPYAELWMGTHP RGDAKILDNRISQKTLSQWIAENQDSLGSVKDFTFNGNLPFLFKVLSVETPLSIQAH NKELAEKLHLQAPQHYPDANHKKPEMAIALTPFQGLCGFRPVEEIVTFLKKVPEFQFLI GDEAATHLKQTMSHDSQAVASSLQSCFSHLMKSEKKVVVEQLNLLVKRISQQAAAG NNMEDIFGELLQLHQQYPGDIGCFAIYFLNLLTLKPGEAMFLEANVPHAYLKGDCVE CMACSDNTVRAGLTPKFIDVPTLCCEMLSYTPSSSKDRLFLPTRSQEDPYLSIYDPPV PDFTIMKTEVPGSVTEYKVLALDSASILLMVQGTVIASPTTQTPIPLQRGGVLFIGN

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ESVSLKLTEPKDLLIFRACCLLTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

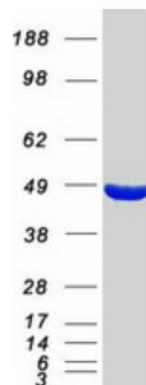
GENE INFORMATION

Gene Name	MPI mannose phosphate isomerase [Homo sapiens (human)]
Official Symbol	MPI
Synonyms	MPI; mannose phosphate isomerase; CDG1B; PMI; PMI1; mannose-6-phosphate isomerase; phosphohexomutase; phosphomannose isomerase 1; EC 5.3.1.8
Gene ID	4351
mRNA Refseq	NM_002435
Protein Refseq	NP_002426
MIM	154550
UniProt ID	P34949

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SDS-PAGE

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