

Product datasheet for PH308134

Mannose Phosphate Isomerase (MPI) (NM_002435) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	MPI MS Standard C13 and N15-labeled recombinant protein (NP_002426)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC208134
Predicted MW:	46.7 kDa
Protein Sequence:	>RC208134 protein sequence Red=Cloning site Green=Tags(s) MAAPRVFPLSCAVQYAWGKMGSNSEVARLLASSDPLAQIAEDKPYAELWMGTHPRGDAKILDNRSQKT LSQWIAENQDSLGSVKKDTFNGNLPFLFKVLSVETPLSIQAHPNKELAEKHLQAPQHYPDANKPEMAI ALTPFQGLCGFRPVVEEIVTFLLKVPFQFLIGDEAATHLKQTMSHDSQAVASSLQSCFSLMKSEKKVVV EQLNLLVKRISQQAAGNMMEDIFGELLQLHQQYPGDIGCFAYFLNLLTLKPGEAMFLEANVPHAYLK GDCVECMACSDNTVRAGLTPKFIDVPTLCEMLSYTPSSSKDRLFIPTRSQEDPYLSIYDPPVPDFTIMKT EVPGSVTEYKVLALDSASILLMVQGTVIASPTTQTPIPLQRGGVLFIGANESVSLKLTPEKDLLIFRAC CLL TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_002426</u>
RefSeq Size:	3077
RefSeq ORF:	1269
Synonyms:	CDG1B; PMI; PMI1



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Locus ID: 4351

UniProt ID: [P34949](#)

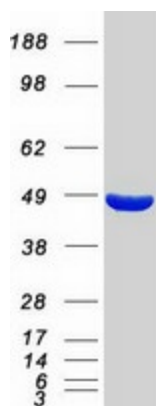
Cytogenetics: 15q24.1

Summary: 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]

Protein Families: ES Cell Differentiation/IPS

Protein Pathways: Amino sugar and nucleotide sugar metabolism, Fructose and mannose metabolism, Metabolic pathways

Product images:



Coomassie blue staining of purified MPI protein (Cat# [TP308134]). The protein was produced from HEK293T cells transfected with MPI cDNA clone (Cat# [RC208134]) using MegaTran 2.0 (Cat# [TT210002]).