

## Recombinant Full Length Human MPI Protein, GST-tagged

Cat. No. MPI-6323HF    Lot. No. (See product label)

### SPECIFICATION

**Product Overview**      Human MPI full-length ORF ( NP\_002426.1, 1 a.a. - 423 a.a.) recombinant protein with GST-tag at N-terminal.

**Species**                      Human

**Source**                        In Vitro Cell Free System

**ProteinLength**              423 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. [provided by RefSeq]

**Molecular Mass**            73.1 kDa

**AA Sequence**

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MAAPRVFPLSCAVQQYAWGKMGSNSEVARLLASSDPLAQIAEDKPYAELWMGTHP
RGDAKILDNRISQKTLQWIAENQDSLGSVKVDTFNGLPFLFKVLSVETPLSIQAH
NKELAEKHLHLQAPQHYPDANHKPEMAIALTPFQGLCGFRPVVEEIVTFLKKVPEFQFLI
GDEAATHLKQTM SHDSQAVASSLQSCFSLMKSEKKVVVEQLNLLVKRISQQAAAG
NNMEDIFGELLQLHQQYPGDIGCFAIYFLNLLTLKPGAMFLEANVPHAYLKGDCVE
CMACSDNTVRAGLTPKFIDVPTLCEMLSYPSSSKDRLFLPTRSQEDPYLSIYDPPV
PDFTIMKTEVPGSVTEYKVLALDSASILLMVQGTVIASPTTQTPIPLQRGGVLFIGN
ESVSLKLTEPKDLLIFRACCL
    
```

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|-----------------------|---|
| <b>Applications</b>   | Enzyme-linked Immunoabsorbent Assay<br>Western Blot (Recombinant protein)<br>Antibody Production<br>Protein Array |
| <b>Notes</b>          | Best use within three months from the date of receipt of this protein.  |
| <b>Storage</b>        | Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.  |
| <b>Storage Buffer</b> | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.  |

## GENE INFORMATION

|                        |  |
|------------------------|--|
| <b>Gene Name</b>       | <a href="#">MPI mannose phosphate isomerase [ Homo sapiens ]</a>   |
| <b>Official Symbol</b> | <a href="#">MPI</a>  |
| <b>Synonyms</b>        | MPI; mannose phosphate isomerase; mannose-6-phosphate isomerase; mannose 6 phosphate isomerase; phosphohexamutase; phosphomannose isomerase 1; mannose-6- phosphate isomerase; PMI; PMI1; CDG1B; FLJ39201; |
| <b>Gene ID</b>         | <a href="#">4351</a>   |
| <b>mRNA Refseq</b>     | <a href="#">NM_002435</a>  |
| <b>Protein Refseq</b>  | <a href="#">NP_002426</a>  |
| <b>MIM</b>             | <a href="#">154550</a>   |
| <b>UniProt ID</b>      | <a href="#">P34949</a>   |