

## 32-2562: MPI Recombinant Protein

**Alternative Name** Mannose-6-phosphate isomerase,PMI1,CDG1B,Phosphohexomutase,Phosphomannose isomerase,EC  
: 5.3.1.8,FLJ39201.

### Description

Source : E.coli. MPI Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 382 amino acids (1-362) and having a molecular mass of 41.9 kDa. The MPI is fused to a 20 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques. MPI is a member of the mannose-6-phosphate isomerase type 1 family. Although MPI is expressed in all tissues, it can be found more abundantly in heart, brain and skeletal muscle. Localized to the cytoplasm, MPI exploits zinc as a cofactor and catalyzes the interconversion of fructose-6-phosphate and mannose-6-phosphate. Mutations in the MPI gene are the cause of carbohydrate-deficient glycoprotein syndrome, type Ib.

### Product Info

**Amount :** 25 µg  
**Purification :** Greater than 90% as determined by SDS-PAGE.  
**Content :** The MPI solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M Urea and 5% glycerol.  
**Storage condition :** Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.  
**Amino Acid :** MGSSHHHHHH SSSLVPRGSH MAAPRVFPLS CAVQQYAWGK MGSNSEVARL LASSDPLAQI  
AEDKPYAELW MGTHPRGDAK ILDNRIQSKT LSQWIAENQD SLGSKVKDTF NGNLPFLFKV LSVETPLSIQ  
AHPNKELAEK LHLQAPQHYP DANHKPEMAI ALTPFQGLCG FRPVEEIVTF LKTAAGNNME DIFGELLQL  
HQQYPGDIGC FAIYFLNLLT LKPGEAMFLE ANVPHAYLKG DCVECMACSD NTVRAGLTPK FIDVPTLCEM  
LSYTPSSSKD RLFLPTRSQE DPYLSIYDPP VPDFTIMKTE VPGSVTEYKV LALDSASILL MVQGTVIAS  
PTTQTPIPLQ RGGVLFIGN ESVSLKLTEP KDLLIFRACC LL

