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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 SSGLVPRGSH MAAPRVFPLS CAVQQYAWGK MGSNSEVARL LASSDPLAQI AEDKPYAELW MGTHPRGDAK ILDNRISQKT LSQWIAENQD SLGSKVKDTF NGNLPFLFKV LSVETPLSIQ AHPNKELAEK LHLQAPQHYP DANHKPEMAI ALTPFQGLCG FRPVEEIVTF LKTAAGNNME DIFGELLLQL HQQYPGDIGC FAIYFLNLLT LKPGEAMFLE ANVPHAYLKG DCVECMACSD NTVRAGLTPK FIDVPTLCEM LSYTPSSSKD RLFLPTRSQE DPYLSIYDPP VPDFTIMKTE VPGSVTEYKV LALDSASILL MVQGTVIAST PTTQTPIPLQ RGGVLFIGAN ESVSLKLTEP KDLLIFRACC LL