Mannose-6-Phosphate Isomerase (MPI) Rat Recombinant Protein

PRODUCT OVERVIEW

Product Name	Mannose-6-phosphate isomerase (Mpi), Recombinant Protein
Full Product Name	Recombinant Rat Mannose-6-phosphate isomerase (Mpi)
Product Gene Name	Mpi recombinant protein
Product Synonym Gene Name	Mpi
Sequence	ANPRVFPLSC VVQQYAWGKV GSKSEVACLL ACSDPLTQIS EDKPYAELWM GAHPRGDAKI LDNRISQKTL GQWIAENQNS LGQKVKDTFN GKLPFLFKVL SVETALSIQA HPNKELAEKL HLQAPEHYPD ANHKPEMAIA LTPFQGLCGF RPVEEIVTFL KKVPEFQSLI GEDATAQLKK SMNEGSGAMA SALKNCFSHL MKSEKKVVVE QLNLLVKRIS QQISNGNSMD DICGELLLQL HQQYPGDIGC FAIYLLNLIT LKPGEAMFLE ANVPHAYLKG DCVECMACSD NTVRAGLTPK FIDVSTLCEM LDYTPSPSKD RLFAPTLSQD DPYLSIYDPP VPDFTVMKIE VPGSVTEYKV LTLDSASILL LVQGTVTAII PSVQGEIPLS RGGVLFIGAN ETVLLKLTVP KNLLIFRACC LL
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	46,424 Da
Sequence Positions	2-423, full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q68FX1
Species	Rat
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Mpi recombinant protein	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.
Other Notes	Small volumes of Mpi recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for Mpi purchase	MBS1474406 is a recombinant protein targeting Mpi. Also known as Recombinant Rat Mannose-6-phosphate isomerase (Mpi). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Mpi. It may not necessarily be applicable to this product.

NCBI GI #	51854221

NCBI GeneID	300741
NCBI Accession #	NP_001004081.1
UniProt Primary Accession #	Q68FX1
UniProt Related Accession #	Q68FX1
GenBank Nucleotide #	NM_001004081.1
NCBI Official Full Name	mannose-6-phosphate isomerase
NCBI Official Synonym Full Names	mannose phosphate isomerase (mapped)
NCBI Official Symbol	Mpi
UniProt Protein Name	Mannose-6-phosphate isomerase
UniProt Synonym Protein Names	Phosphohexomutase; Phosphomannose isomerase; PMI
Protein Family	Mannose-6-phosphate isomerase
UniProt Gene Name	Mpi
UniProt Synonym Gene Names	PMI
NCBI Protein Information	mannose-6-phosphate isomerase
UniProt Comments for Mpi	Involved in the synthesis of the GDP-mannose and dolichol-phosphate-mannose required for a number of critical mannosyl transfer reactions.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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