Mannose-6-Phosphate Isomerase (MAN1) Recombinant Protein

PRODUCT OVERVIEW

Product Name	Mannose-6-phosphate isomerase (MAN1), Recombinant Protein
Full Product Name	Recombinant Cryptococcus neoformans var. neoformans serotype D Mannose-6-phosphate isomerase (MAN1)
Product Gene Name	MAN1 recombinant protein
Product Synonym Gene Name	MAN1; CNI02370
Product Synonym Names	Mannose-6-phosphate isomerase; EC=5.3.1.8; Phosphohexomutase; Phosphomannose isomerase; PMI
Sequence	MSPSVFKISP GINSYDWGKK GSASLAAQLA TTSIPDFSID EDKAYAELWM GTHPNNPSRL SDNTLLSEHL KSHPELIGSS VSSKFEDCKD GSLPFLFKVL SIGTALSIQA HPDKPLAKKL FDEKPDVYKD PNHKPEMAIA LTPFLAFLNF LPLSVLLLHL LTVPELQEFV DSSLTESLAS SLGLPTSQPP DTSLFKPTES PATAEQKDIL KQIFAALMSA DKKLVEEAIS KLIKRYQAKR DIKENEKSLV DLALRLNDQY PGDVGVLCVF LLNVVELKRG EAAFLGANEP HAYIEGDIIE CMATSDNVVR AGLTPKLRDV DTLVSMLTYE AAPGNKQLLQ PTPFQKGDDT TKLYDPPIAE FSVLRTELSK GMKTSHRPVE GPSLCVITEG EGVVRNGNDR SEFVRGDVIF VGAGKEVEWE AIKGLEMFRA YVEA
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	47,590 Da
Sequence Positions	1-434aa; 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 Q9HFU4
Species	Cryptococcus neoformans var. neoformans serotype D (strain JEC21 / MYA-565) (Filobasidiella neoformans)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for MAN1 recombinant protein	MBS1425800 is a recombinant protein targeting MAN1. Also known as Recombinant Cryptococcus neoformans var. neoformans serotype D Mannose-6-phosphate isomerase (MAN1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of MAN1 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MAN1. It may not necessarily be applicable to this product.

NCBI GI #	58271098
NCBI GeneID	3259465

NCBI Accession #	XP_572705.1
UniProt Primary Accession #	Q9HFU4
UniProt Secondary Accession #	Q5KBJ0
UniProt Related Accession #	Q9HFU4
GenBank Nucleotide #	XM_572705.1
NCBI Official Full Name	mannose-6-phosphate isomerase
NCBI Official Symbol	CNI02370
UniProt Protein Name	Mannose-6-phosphate isomerase
UniProt Synonym Protein Names	Phosphohexomutase; Phosphomannose isomerase; PMI
Protein Family	Mannan endo-1,4-beta-mannosidase
UniProt Gene Name	MAN1
UniProt Synonym Gene Names	PMI
UniProt Entry Name	MPI_CRYNJ
NCBI Protein Information	mannose-6-phosphate isomerase
UniProt Comments for MAN1	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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