PMM1 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	PMM1, Recombinant Protein
Full Product Name	Recombinant Human PMM1 Protein
Product Gene Name	PMM1 recombinant protein
Product Synonym Names	PMMH22; Phosphomannomutase 1; PMM 1; PMMH-22
Sequence	MAVTAQAARR KERVLCLFDV DGTLTPARQK IDPEVAAFLQ KLRSRVQIGV VGGSDYCKIA EQLGDGDEVI EKFDYVFAEN GTVQYKHGRL LSKQTIQNHL GEELLQDLIN FCLSYMALLR LPKKRGTFIE FRNGMLNISP IGRSCTLEER IEFSELDKKE KIREKFVEAL KTEFAGKGLR FSRGGMISFD VFPEGWDKRY CLDSLDQDSF DTIHFFGNET SPGGNDFEIF ADPRTVGHSV VSPQDTVQRC REIFFPETAH EAVEHHHHHH
Host	E Coli
Species Reactivity	Human
Form/Format	Supplied as a 0.2 muM filtered solution of 20mM Tris-HCl, 150mM NaCl, 1mM DTT, pH 8.0.
Purity/Purification	Greater than 95% as determined by reducing SDS-PAGE.
Preparation and Storage	Lyophilized protein should be stored at -20 degree C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 2-8 degree C for 2-7 days. Aliquots of reconstituted samples are stable at -20 degree C for 3 months.
Molecular Weight	29,747 Da
OMIM	U62526 mRNA
3D Structure	ModBase 3D Structure for Q92871
Endotoxin	Less than 0.1 ng/mug (1 IEU/mug) as determined by LAL test.
Directions for Use	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 mug/ml. Dissolve the lyophilized protein in 1X PBS. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Applications Tested/Suitable for PMM1 recombinant protein	ELISA (EIA),Western Blot (WB), SDS-PAGE, Mass Spectrometry (MS)
Related Product Information for PMM1 recombinant protein	Recombinant Human PMM1 Protein is produced by our E.coli expression system and the target gene encoding Met1-Ala262 is expressed with a 6His tag at the C-terminus.
Other Notes	Small volumes of PMM1 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 PMM1 purchase	MBS8249610 is a recombinant protein targeting PMM1. Also known as Recombinant Human PMM1 Protein. Reactive in Human. Host: E Coli.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PMM1. It may not necessarily be applicable to this product.

NCBI GI #	194097356
NCBI GeneID	5372
NCBI Accession #	NP_002667.2

UniProt Primary Accession #	Q92871
UniProt Secondary Accession #	Q92586; A8K003
UniProt Related Accession #	Q92871
GenBank Nucleotide #	NM_002676.2
NCBI Official Full Name	phosphomannomutase 1
NCBI Official Synonym Full Names	phosphomannomutase 1
NCBI Official Symbol	PMM1
NCBI Official Synonym Symbols	Sec53
UniProt Protein Name	Phosphomannomutase 1
UniProt Synonym Protein Names	PMMH-22
Protein Family	Wasp kinin
UniProt Gene Name	PMM1
UniProt Synonym Gene Names	PMMH22; PMM 1
UniProt Entry Name	PMM1_HUMAN
NCBI Protein Information	phosphomannomutase 1
NCBI Summary for PMM1	Phosphomannomutase catalyzes the conversion between D-mannose 6-phosphate and D-mannose 1-phosphate which is a substrate for GDP-mannose synthesis. GDP-mannose is used for synthesis of dolichol-phosphate-mannose, which is essential for N-linked glycosylation and thus the secretion of several glycoproteins as well as for the synthesis of glycosyl-phosphatidyl-inositol (GPI) anchored proteins. [provided by RefSeq, Jul 2008]
UniProt Comments for PMM1	PMM1: Involved in the synthesis of the GDP-mannose and dolichol-phosphate-mannose required for a number of critical mannosyl transfer reactions. In addition, may be responsible for the degradation of glucose-1,6-bisphosphate in ischemic brain. Belongs to the eukaryotic PMM family. Protein type: Carbohydrate Metabolism - amino sugar and nucleotide sugar; Carbohydrate Metabolism - fructose and mannose; EC 5.4.2.8; Isomerase Chromosomal Location of Human Ortholog: 22q13.2 Cellular Component: cytosol Molecular Function: phosphomannomutase activity; protein binding Biological Process: GDP-mannose biosynthetic process; mannose metabolic process; protein amino acid N-linked glycosylation; protein targeting to ER
Research Articles on PMM1	**1.** PMM1 is responsible for the degradation of Glc-1,6-P(2) in brain
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