

Recombinant Human Phosphomannomutase 1, His-tagged

Cat. No. PMM1-803H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PMM1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques, 31.9kDa (282aa).
Species	Human
Source	E.coli
Description	PMM1 (Phosphomannomutase 1) is an enzyme that involved in the synthesis of the GDP-mannose and dolichol-phosphate-mannose required for a number of critical mannosyl transfer reactions. This enzyme 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. In addition, it may be responsible for the degradation of glucose-1,6-bisphosphate in ischemic brain.
Sequences of amino acids	MGSSHHHHH SGLVPRGSH MAVTAQAARR KERVLCCLFDV DGTLPARQK IDPEVAAFLQ KLRSRVQIGV VGGSDYCKIA EQLGDGDEVI EKFDYVFAEN GTVQYKHGRL LSKQTIQNHL GEELLQDLIN FCLSYMALLR LPKKRGTFIE FRNGMLNISP IGRSCTLEER IEFSELDKKE KIREKFVEAL KTEFAGKGLR FSRGGMISFD VFPEGWDKRY CLDSLDQDSF DTIHFFGNET SPGGNDFEIF ADPRTVGHSV VSPQDTVQRC REIFFPETAH EA

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Formulation	Liquid, 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol, 2mM DTT, 100mM NaCl, 0.1mM PMSF
Purity	> 90% by SDS - PAGE
Concentration	0.5mg/ml (determined by Bradford assay)
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

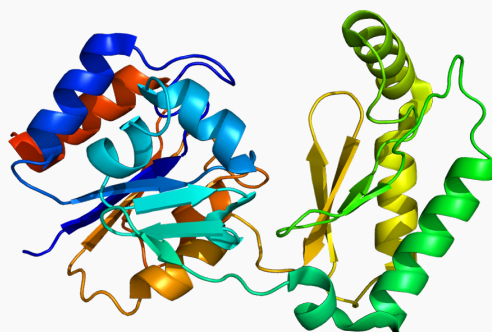
Gene Name	PMM1 phosphomannomutase 1 [Homo sapiens]
Synonyms	Phosphomannomutase 1; PMM1; PMMH-22; brain glucose-1,6-bisphosphatase; sec53; EC 5.4.2.8; PMMH-22; PMMH22; OTTHUMP00000028766
Gene ID	5372
mRNA Refseq	NM_002676
Protein Refseq	NP_002667
MIM	601786
UniProt ID	Q92871
Chromosome Location	22q13.2
Function	isomerase activity; metal ion binding; phosphomannomutase activity

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PDBrendering based
on 2fuc. Available
structures:2fuc,2fue.



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