

32-2686: PMM1 Recombinant Protein

Alternative Name : Phosphomannomutase 1, PMM 1, PMMH-22, PMM1, PMMH22, Sec53.

Description

Source : Escherichia Coli. PMM1 Human Recombinant fused with a 20 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 282 amino acids (1-262 a.a.) and having a molecular mass of 31.9kDa. The PMM1 is purified by proprietary chromatographic techniques. Phosphomannomutase 1 (PMM1) is an enzyme involved in the synthesis of the GDP-mannose and dolichol-phosphate-mannose required for a number of critical mannosyl transfer reactions. PMM1 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 the synthesis of dolichol-phosphate-mannose, which is crucial for N-linked glycosylation and accordingly the secretion of several glycoproteins as well as for the synthesis of glycosyl-phosphatidyl-inositol (GPI) anchored proteins. Additionally, PMM1 may be responsible for the degradation of glucose-1,6-bisphosphate in ischemic brain.

Product Info

Amount :	10 µg
Purification :	Greater than 90.0% as determined by SDS-PAGE.
Content :	The PMM1 solution (0.5 mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 10% glycerol, 2mM DTT, 100mM NaCl and 0.1mM PMSF.
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 :	MGSSHHHHH SSGLVPRGSH MAVTAQAARR KERVLCFLDV DGTLPARQK IDPEVAAFLQ KLRSRVQIGV VGGSDYCKIA EQLGDGDEVI EKFDYVFAEN GTVQYKHGRL LSKQTIQNLH GEELLQDLIN FCLSYMALLR LPKKRGTFIE FRNGMLNISP IGRSCTLEER IEFSELDKKE KIREKFVEAL KTEFAGKGLR FSRGGMISFD VFPEGWDKRY CLDSLQDSF DTIHFFGNET SPGGNDFEIF ADPRTVGHSV VSPQDTVQRC REIFFPETAH EA.

