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Recombinant human PMM1 protein

Catalog Number: ATGP0782

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-262aa

UniProt No.
Q92871

NCBI Accession No.
NP_002667

Alternative Names
phosphomannomutase 1, Sec53, PMMH22

PRODUCT SPECIFICATION

Molecular Weight
31.9 kDa (282aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 2mM DTT, 100mM NaCl, 0.1mM PMSF

Purity
> 90% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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,

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6-bisphosphate in ischemic brain. Recombinant human PMM1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

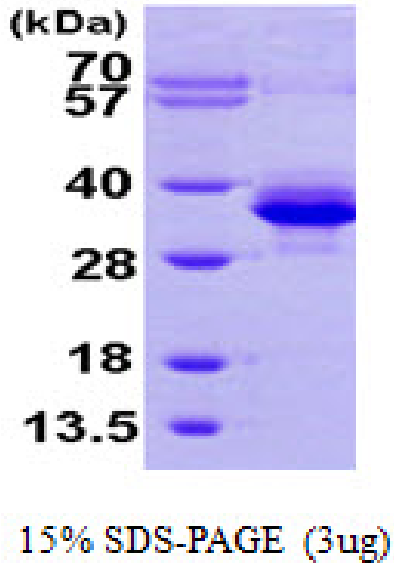
MGSSHHHHHH SSGLVPRGSH MAVTAQAARR KERVLCLFDV DGTLTPARQK IDPEVAAFLQ KLRSRVQIGV VGGSDYCKIA EQLGDGDEVI EKFDYVFAEN GTVQYKHGRL LSKQTIQNHL GEELLQDLIN FCLSYMALLR LPKKRGTFIE FRNGMLNISP IGRSCTLEER IEFSELDKKE KIREKFVEAL KTEFAGKGLR FSRGGMISFD VFPEGWDKRY CLDSLDQDSF DTIHFFGNET SPGGNDFEIF ADPRTVGHSV VSPQDTVQRC REIFFPETAH EA

General References

Veiga-da-Cunha M., et al. (2008) J Biol Chem. 283(49):33988-93.
Silvaggi N.R., et al. (2006) J. Biol. Chem. 281:14918-14926

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.