

Recombinant Human Phosphomannomutase 2, His-tagged

Cat. No. PMM2-2822H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant humanPMM2 protein,fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques. MW = 30.2 kDa (266aa), confirmed by MALDI-TOF.
Species	Human
Source	E.coli
Description	PMM2, also known asPhosphomannomutase 2, belongs to the eukaryotic PMM family. PMM2 is involved in the synthesis of the GDP-mannose and dolichol-phosphate-mannose required for a number of critical mannosyl transfer reactions. It catalyzes the isomerization of mannose 6-phosphate to mannose 1-phosphate. Mutations in PMM2 are associated with Congenital disorders of glycosylation (CDG)-Ia, an autosomal recessive disorder characterized by central nervous system dysfunction and multiorgan failure.
Sequences Of Amino Acids	MGSSHHHHHH SSGLVPRGSH MAAPGPALCL FDVDGTLTAP RQKITKEMDD FLQKLRQKIK IGVVGGSDFE KVQEQLGNDV VEKYDYVFPE NGLVAYKDGK LLCRQNIQSH LGEALIQDLI NYCLSYIAKI KLPKKRGTFI EFRNGMLNVS PIGRSCSQEE RIEFYELDKK ENIRQKFVAD LRKEFAGKGL TFSIGGQISF DVFPDGDWDR YCLRHVENDG YKTIYFFGDK TMPGGNDHEI FTDPRTMGYS VTAPEDTRRI CELLFS
Purity	> 95% by SDS – PAGE.

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Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol 1mM DTT, 0.1M NaCl.
Concentration	1 mg/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	PMM2 phosphomannomutase 2 [Homo sapiens]
Synonyms	PMM2; phosphomannomutase 2; CDG1; CDGS; CDG1a; PMM 2; EC 5.4.2.8; CDG1A
Gene ID	5373
mRNA Refseq	NM_000303
Protein Refseq	NP_000294
MIM	601785
UniProt ID	O15305
Chromosome Location	16p13
Pathway	Amino sugar and nucleotide sugar metabolism; Fructose and mannose metabolism; Metabolic pathways

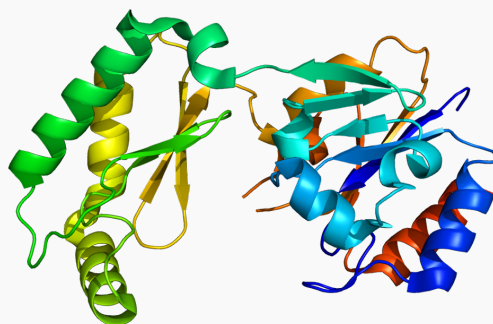
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Function	isomerase activity; phosphomannomutase activity
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PDB rendering based
on 2amy.



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