

## Product datasheet for **AR09665PU-N**

### PMM2 (1-246, His-tag) Human Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	PMM2 (1-246, His-tag) human recombinant protein, 0.1 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	<u>MGSSHHHHHH SSGLVPRGSH</u> MAAPGPALCL FDVDGTLTAP RQKITKEMDD FLQKLRQKIK IGVVGGSDFE KVQEQLGNDV VEKYDYVFPE NGLVAYKD GK LLCRQNIQSH LGEALIQDLI NYCLSYIAKI KLPKKRGTFI EFRNGMLNVS PIGRSCSQEE RIEFYELDKK ENIRQKFVAD LRKEFAGKGL TFSIGGQISF DVFPDGWDKR YCLRHVENDG YKTIYFFGDK TMPGGNDHEI FTDPRTMGYS VTAPEDTRRI CELLFS
Tag:	His-tag
Predicted MW:	30.2 kDa
Concentration:	lot specific
Purity:	>95% by SDS – PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1 mM DTT, 0.1M NaCl
Preparation:	Liquid purified protein
Protein Description:	Recombinant human PMM2 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	<u>NP_000294</u>
Locus ID:	5373
UniProt ID:	<u>O15305</u> , <u>A0A0S2Z4J6</u> , <u>Q59F02</u>
Cytogenetics:	16p13.2
Synonyms:	CDG1; CDG1a; CDGS; PMI; PMI1; PMM 2



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**Summary:**

The protein encoded by this gene catalyzes the isomerization of mannose 6-phosphate to mannose 1-phosphate, which is a precursor to GDP-mannose necessary for the synthesis of dolichol-P-oligosaccharides. Mutations in this gene have been shown to cause defects in glycoprotein biosynthesis, which manifests as carbohydrate-deficient glycoprotein syndrome type I. [provided by RefSeq, Jul 2008]

**Protein Families:**

Druggable Genome

**Protein Pathways:**

Amino sugar and nucleotide sugar metabolism, Fructose and mannose metabolism, Metabolic pathways

**Product images:**