

## Product datasheet for PH303472

### PMM2 (NM\_000303) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	PMM2 MS Standard C13 and N15-labeled recombinant protein (NP_000294)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC203472
Predicted MW:	27.9 kDa
Protein Sequence:	>RC203472 representing NM_000303 Red=Cloning site Green=Tags(s)  MAAPGPALCLFDVDGTLTAPRQKITKEMDDFLQKLRQKIKIGVVGSDFEKVQEQLGNDVVEKYDYVFPE NGLVAYKDGKLLCRQNIQSHLGEALIQDLINYCLSYIAKIKLPPKRGTFIEFRNGMLNVSPIGRSCSQEE RIEFYELDKKENIRQKFVADLRKEFAGKGLTFSIGGQISFDVFPDGDWKRYCLRHVENDGYKTIYFFGDK TMPGGNDHEIFTDPRTMGYSVTAPEDTRRICELLFS  TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_000294</a>
RefSeq Size:	2302
RefSeq ORF:	738
Synonyms:	CDG1; CDG1a; CDGS; PMI; PMI1; PMM 2
Locus ID:	5373
UniProt ID:	<a href="#">O15305</a> , <a href="#">A0A0S2Z4J6</a> , <a href="#">Q59F02</a>



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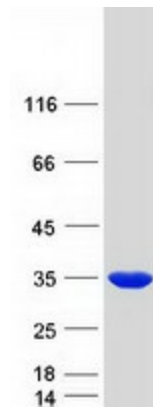
**Cytogenetics:** 16p13.2

**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:



Coomassie blue staining of purified PMM2 protein (Cat# [TP303472]). The protein was produced from HEK293T cells transfected with PMM2 cDNA clone (Cat# [RC203472]) using MegaTran 2.0 (Cat# [TT210002]).