

## PMM1 Protein, Human, Recombinant (His)

### General Information

Synonyms:	PMMH22;PMM 1;PMMH-22;PMM1;Phosphomannomutase 1
Protein Construction:	Met1-Ala262
Species:	Human
Expression Host:	E. coli
Accession:	Q92871
Molecular Weight:	49 KDa (reducing condition)
AA Sequence:	Met1-Ala262

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Supplied as a 0.2 μm filtered solution of 20 mM Tris-HCl, 150 mM NaCl, 1 mM DTT, pH 8.0.

### Preparation and Storage

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

Proteins are shipped with blue ice.

### Protein Background

Phosphomannomutase 1 (PMM1) belongs to the eukaryotic PMM family. Phosphomannomutase 1 can catalyze 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 required for a number of critical mannosyl transfer reactions. PMM1 is highly expressed in liver, heart, brain, and pancreas, but lower expression in skeletal muscle. In addition, PMM1 may be responsible for the degradation of glucose-1,6 bisphosphate in ischemic brain.

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