



Recombinant Protein Technical Manual

Recombinant Human PMM1 Protein (His Tag)

RPES1900

Product Data:

Product SKU: RPES1900

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: Q92871

Protein Information:

Molecular Mass: 30.8 kDa

AP Molecular Mass: 49 kDa

Tag: C-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Shipping: This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.

Formulation: Supplied as a 0.2 µm filtered solution of 20mM TrisHCl, 150mM NaCl, 1mM DTT, pH 8.0.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Phosphomannomutase 1; PMM 1; PMMH-22; PMM1; PMMH22

Immunogen Information:

Sequence: Met 1-Ala262

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,6 biphosphate in ischemic brain.