



Recombinant Protein Technical Manual

Recombinant Human BPGM Protein (His Tag)

RPE3462

Product Data:

Product SKU: RPE3462

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: P07738

Protein Information:

Molecular Mass: 31.0 kDa

AP Molecular Mass: 30 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 Tris, 1mM DTT, pH 8.0 .

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

Application:

Synonyms: Bisphosphoglycerate Mutase; BPGM; 2;3-Bisphosphoglycerate Mutase Erythrocyte; 2;3-Bisphosphoglycerate Synthase; 2;3-Diphosphoglycerate Mutase; DPGM; BPG-Dependent PGAM; BPGM

Immunogen Information:

Sequence: Ser2-Lys259

Background:

Bisphosphoglycerate Mutase (BPGM) is a member of the Phosphoglycerate Mutase family and BPG-Dependent PGAM subfamily. BPGM is a multifunctional enzyme. BPGM catalyzes 2,3-DPG synthesis via its synthetase activity, and 2,3-DPG degradation via its phosphatase activity. It also has phosphoglycerate phosphomutase activity. BPGM plays a major role in regulating hemoglobin oxygen affinity by controlling the levels of 2,3-bisphosphoglycerate (2,3-BPG). Deficiency of BPGM increases the affinity of cells for oxygen and result in hemolytic anemia.