Recombinant Human BPGM Protein (His Tag)

Catalog Number:PKSH032119

Note: Centrifuge before opening to ensure complete recovery of vial contents.

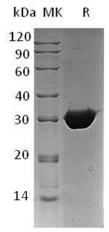
Description

Synonyms	Bisphosphoglycerate Mutase;BPGM;2,3-Bisphosphoglycerate Mutase Erythrocyte;2,3-Bisphosphoglycerate Synthase;2,3-Diphosphoglycerate Mutase;DPGM;BPG-Dependent PGAM;BPGM
Species	Human
Expression Host	E.coli
Sequence	Ser2-Lys259
Accession	P07738
Calculated Molecular Weight	31.0 kDa
Observed molecular weight	30 kDa
Tag	C-His

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein 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-HCl, 1mM DTT, pH 8.0.
Reconstitution	Not Applicable

Data



> 95 % as determined by reducing SDS-PAGE.

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.

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