

PGAM1 Protein, Human

Cat. No.:	HY-P701962
Synonyms:	PGAM1; Phosphoglycerate mutase 1; BPG-dependent PGAM 1; Phosphoglycerate mutase isozyme B; PGAM-B
Species:	Human
Source:	E. coli
Accession:	P18669 (M1-K254)
Gene ID:	5223
Molecular Weight:	

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	<p>PGAM1, or phosphoglycerate mutase 1, plays a pivotal role in glycolysis by catalyzing the reversible interconversion of 2-phosphoglycerate and 3-phosphoglycerate. This enzymatic activity is a crucial step in the glycolytic pathway, facilitating the conversion of glucose-derived substrates into energy and metabolic intermediates. Additionally, PGAM1 is involved in the interconversion of (2R)-2,3-bisphosphoglycerate and (2R)-3-phospho-glyceroyl phosphate. The regulation of these reactions is vital for maintaining the glycolytic flux and ensuring the proper flow of metabolites through the glycolytic pathway. PGAM1's enzymatic functions contribute to the overall efficiency of energy production and metabolic homeostasis within cells.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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