Recombinant PGAM2 protein (His tag)

Catalog Number	546782
Synonyms	BPG-dependent PGAM 2; Muscle-specific phosphoglycerate mutase; Phosphoglycerate mutase isozyme M; PGAM-M
Species	Human
Expression System	E. coli
Accession	P15259
Molecular Weight	Predictes a molecular mass of 30.42 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 31 kDa band.

Product Information

Sequence Region	1-253
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 1-253 aa (P15259) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Recombinant Phosphoglycerate Mutase 2 (PGAM2) Fragment (1-253) – a high-purity, stable protein fragment designed for structural and biochemical studies. This product captures the essential catalytic domain of human muscle-specific phosphoglycerate mutase, enabling research into its role in glycolysis and energy metabolism. Phosphoglycerate Mutase 2 (PGAM2) is a key enzyme in glycolysis, catalyzing the interconversion of 3-phosphoglycerate and 2-phosphoglycerate using 2,3-bisphosphoglycerate as a primer. It also exhibits reduced synthase activity (EC 5.4.2.4), contributing to metabolic regulation in muscle tissues. As the muscle-specific isozyme (PGAM-M), it plays a critical role in cellular energy production, making it a valuable target for metabolic and muscle function research.