

Recombinant mouse Pgam1, His-tagged

Cat. No. Pgam1-15836M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse PGAM1 protein, fused to His tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.
Species	Mouse
Source	E.coli
ProteinLength	1-254aa
Description	PGAM1 belongs to the phosphoglycerate mutase family. This protein is important components of glucose and 2,3-BPGA (2,3-bisphosphoglycerate) metabolism and catalyzes the reversible reaction of 3-phosphoglycerate (3-PGA) to 2-phosphoglycerate (2-PGA) in the glycolytic pathway. The PGAM is a dimeric enzyme containing, in different tissues, different proportions of a slow-migrating muscle (MM) isozyme, a fast-migrating brain (BB) isozyme, and a hybrid form (MB). Recombinant mouse PGAM1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT
Molecular Mass	31.4 kDa (278aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMAAYKL VLIRHGESAW NLENRFSGWY DADLSPAGHE EAKRGGQALR DAGYEFDICF TSVQKRAIRT LWTVLDAIDQ MWLPVVRTWR LNERHYGGLT GLNKAETAAK HGEAQVKIWR RSYDVPPPPM

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EPDHPFYNSI SKDRRYADLT EDQLPSCESLKDTIARALPF WNEEIVPQIK
EGKRVLIAAH GNSLRGIVKH LEGLSEEAIM ELNLPTGIPI VYELDKNLKP
IKPMQFLGDE ETVRKAMEAVAAQGKVKK

Purity >95% by SDS - PAGE

Applications SDS-PAGE

Storage Can be stored at 4°C short term. For long term storage, aliquot and store at at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Concentration 1mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [Pgam1 phosphoglycerate mutase 1 \[Mus musculus \]](#)

Official Symbol PGAM1

Synonyms PGAM1; phosphoglycerate mutase 1; PGAM-B; BPG-dependent PGAM 1; phosphoglycerate mutase isozyme B; Pgam-1; 2310050F24Rik; MGC102422; MGC118049;

Gene ID [18648](#)

mRNA Refseq [NM_023418](#)

Protein Refseq [NP_075907](#)

Pathway Gluconeogenesis, organism-specific biosystem; Gluconeogenesis, oxaloacetate => fructose-6P, organism-specific biosystem; Gluconeogenesis, oxaloacetate =>

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	fructose-6P, conserved biosystem; Glucose metabolism, organism-specific biosystem; Glycine, serine and threonine metabolism, organism-specific biosystem;
Function	phosphoglycerate mutase activity; phosphoglycerate mutase activity; protein kinase binding;

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