

Active Recombinant Mouse Pgam1 protein, His-tagged (Bioactivity Validated)

Cat. No. PGAM1-14M **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
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).
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT
Bio-activity	Specific activity is >150units/mg, in which One unit will convert 1.0 umole of 3-phosphoglycerate to 2-phosphoglycerate per minute at pH 7.6 at 37centigrade.
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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

EPDHPFYNSI SKDRRYADLT EDQLPSCESL KDTIARALPF WNEEIVPQIK
EGKRVLIAAH GNSLRGIVKH LEGLSEEAIM ELNLPTGIPI VYELDKNLKP
IKPMQFLGDE ETVRKAMEAV AAQGKVKK

Purity > 95% by SDS - PAGE

Storage Can be stored at +4centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20centigrade or -70centigrade. Avoid repeated freezing and thawing cycles.

Concentration 1 mg/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; Pgam-1

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 => fructose-6P, conserved biosystem; Glucose metabolism, organism-specific biosystem; Glycine, serine and threonine metabolism, organism-specific biosystem;

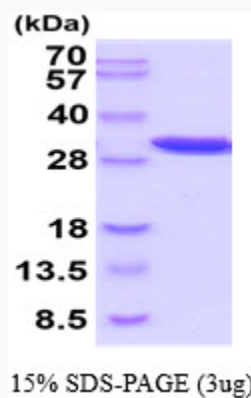
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Function

phosphoglycerate mutase activity; phosphoglycerate mutase activity; protein kinase binding;



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