

# Recombinant mouse PGAM1 protein

Catalog Number: ATGP1496

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-254aa

### UniProt No.

Q9DBJ1

### NCBI Accession No.

NP\_075907

### Alternative Names

Phosphoglycerate mutase 1, 2310050F24Rik, Pgam-1

## PRODUCT SPECIFICATION

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### Molecular Weight

31.4 kDa (278aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT

### Purity

> 95% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### 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.

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## Amino acid Sequence

<MGSSHHHHHH SGLVPRGSH MGSH>MAAYKL VLIRHGESAW NLENRFSGWY DADLSPAGHE EAKRGGQALR  
DAGYEFDICF TSVQKRAIRT LWTVLDAIDQ MWLPVVRTWR LNERHYGGLT GLNKAETAAK HGAEQVKIWR RSYDVPPPPM  
EPDHPFYSNI SKDRRYADLT EDQLPSCESE KDTIARALPF WNEEIVPQIK EGKRVLIAAH GNSLRGIVKH LEGLSEEAIM  
ELNLTGIPI VYELDKNLKP IKPMQFLGDE ETVRKAMEAV AAQGKVKK

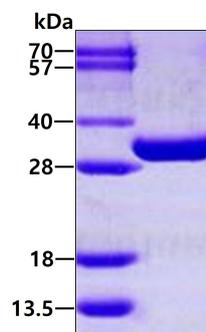
## General References

Cao L., et al. (2007) J. Immunol. 179:5864-5876

Ballif B.A., et al. (2008) J. Proteome Res. 7:311-318

## DATA

### SDS-PAGE



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.