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# **Recombinant mouse PGAM1 protein**

Catalog Number: ATGP3427

#### PRODUCT INFORMATION

### **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

#### **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

### **Biological Activity**

Specific activity is >150unit/mg, in which one unit will convert 1.0 umole of 3-phosphoglycerate to 2-phosphoglcerate per minute at pH 7.6 at 37C.

### Tag

His-Tag

#### **Application**

SDS-PAGE, Enzyme Activity

# **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**

# **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



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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.

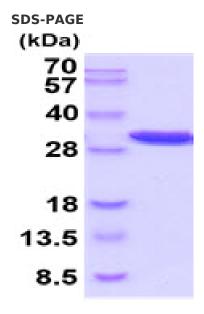
# **Amino acid Sequence**

MGSSHHHHHH SSGLVPRGSH MGSHMAAYKL VLIRHGESAW NLENRFSGWY DADLSPAGHE EAKRGGQALR DAGYEFDICF TSVQKRAIRT LWTVLDAIDQ MWLPVVRTWR LNERHYGGLT GLNKAETAAK HGEAQVKIWR RSYDVPPPPM EPDHPFYSNI SKDRRYADLT EDQLPSCESL KDTIARALPF WNEEIVPQIK EGKRVLIAAH GNSLRGIVKH LEGLSEEAIM ELNLPTGIPI 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**



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

