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

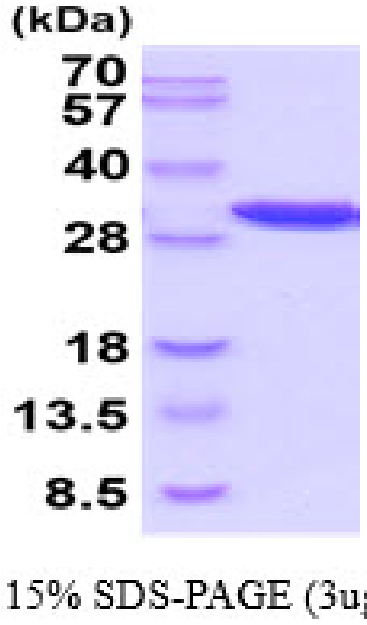
MGSSHHHHHH SSGLVPRGSH MGSHMAAYKL VLIRHGESAW NLENRFSGWY DADLSPAGHE EAKRGGQALR DAGYEFDICF TSVQKRAIRT LWTVLDAIDQ MWLPVVRTWR LNERHYGGLT GLNKAETAAK HGEAQVKIWR RSYDVPPPPM EPDHPFYSNI SKDRRYADLT EDQLPSCESL KDTIARALPF WNEEIVPQIK EGKRVLIAAH GNSLRGIVKH LEGLSEEAIM ELNLPTGIPI VYELDKNLKP IKPMQFLGDE ETVRKAMEAV AAQGKVKK

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

SDS-PAGE



15% SDS-PAGE (3ug)

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