PGAM1, 1-254aa, Human, His-tag, E.coli (Bioactivity Validated)

Cat.NO.: TP03369

3th Edition

Synonyms: Phosphoglycerate mutase 1, Phosphoglycerate mutase isozyme B, PGAM-B, PGAMA.

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). Mutations in this protein cause muscle phosphoglycerate mutase efficiency, also known as glycogen storage disease X. Recombinant human PGAM protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

Form: Liquid. In 20mM Tris-HCl buffer(pH 8.0) containing 10% glycerol, 1mM DTT

Molecular Weight:30.9 kDa (274aa), confirmed by MALDI-TOF

Sequences:
MGSSHHHHHHSSGLVPRGSHMAAYKLVLIRHGESAWNLENRFSGWYDADLSPAGHEEAKRGGQALRDAGYEFDI
CFTSVQKRAIRTLWTVLDAIDQMWLPVVRTWRLNERHYGGLTGLNKAETAAKHGEAQVKIWRRSYDVPPPPMEPD
HPFYSNISKDRRYADLTEDQLPSCESLKDTIARALPFWNEEIVPQIKEGKRVLIAAHGNSLRGIVKHLEGLSEEAIMEL
NLPTGIPIVYELDKNLKPIKPMQFLGDEETVRKAMEAVAAQGKAKK

Purity:> 95% by HPLC

Concentration:1 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

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