

PGAM2, 1-253aa, Human, His-tag, E.coli (Bioactivity Validated)

Cat.NO.: TP03373

3th Edition

Synonyms: Phosphoglycerate mutase 2, GSD10, PGAM-M, PGAMM.

Description: PGAM2, also known as phosphoglycerate mutase 2, belongs to the phosphoglycerate mutase family. Phosphoglycerate mutase (PGAM) 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). This gene encodes muscle-specific PGAM subunit. Mutations in this gene cause muscle phosphoglycerate mutase efficiency, also known as glycogen storage disease X. Recombinant human PGAM2 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.

Form: Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT

Molecular Weight: 30.9 kDa (273aa), confirmed by MALDI-TOF

Sequences:

MGSSHHHHHSSGLVPRGSHMATHRLVMVRHGESTWNQENRFCGWFDAELSEKGTTEEAKRGAKAIKDAKMEFD
ICYTSVLKRAIRTLWAILDGTDMWLPVVRTWRLNERHYGGLTGLNKAETA AKHGEEQVKIWRRSFDIPPPMDEK
HPYYNSISKERRYAGLKPGE LPTCESLKDTIARALPFWNEEIVPQIKAGKRVLIAAHGNSLRGIVKHLEGMSDQAIME
LNLPTGIPIVYELNKELKPTKPMQFLGDEETVRKAMEAVAAQGKAK

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.