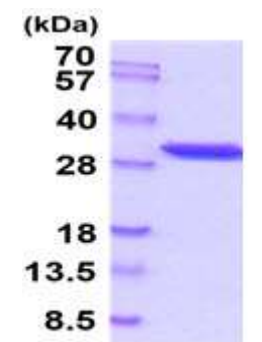


Phosphoglycerate mutase 1, human recombinant

CATALOG NO:	P1105-10 10 µg P1105-50 50 µg
ALTERNATE NAMES:	Phosphoglycerate mutase isozyme B, PGAM-B, PGAMA
CONCENTRATION:	1 mg/ml (determined by Bradford assay)
SOURCE:	PGAM1 recombinant protein was expressed in <i>E.coli</i> and fused to His-tag at N-terminus (1-254aa), confirmed by MALDI-TOF
PURITY:	> 90% by SDS-PAGE
MOL. WEIGHT:	This protein is fused with 6x His tag at N terminus and the protein has a calculated MW of 30.9 kDa (274aa)
FORM:	Liquid
FORMULATION:	In 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol, 1mM DTT
STORAGE CONDITIONS:	Store at +4°C for short term (1-2 weeks). For long term storage, aliquot and store at -70°C. Avoid repeated freeze/thaw cycles.
SEQUENCE:	MGSSHHHHH SSSLVPRGSH MAAYKLVLR HGESAWNLEN RFGWYDADL SPAGHEEAKR GGQALRDAGY EFDICFTSVQ KRAIRTLWTV LDAIDQMWLP VVRTWRLNER HYGGTLGLNK AETAAKHGEA QVKIWRRSYD VPPPPMEPDH PFYSNISKDR RYADLTEDQL PSCESLKDTI ARALPFWNEE IVPQIKEGKR VLIAAHGNSL RGIVKHLEGL SEEAIMELNL PTGIPIVYEL DKNLKPIKPM QFLGDEETVR KAMEAVAAQG KAKK
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 <i>E.coli</i> and purified by using conventional chromatography techniques.
BIOLOGICAL ACTIVITY:	Specific activity is >300 units/mg, in which One unit will convert 1.0 umole of 3-phosphoglycerate to 2-phosphoglycerate per minute at pH 7.6 at 37C



15% SDS-PAGE (3µg)

Human recombinant PGAM1

RELATED PRODUCT:

- 6-Phosphogluconic Acid (6-PGA) Assay Kit (Colorimetric) (Cat. No. K217-100)
- Phosphoglycerate mutase 2, human recombinant (Cat. No. P1103-10, -50)
- Phosphoglycerate mutase 1, mouse recombinant (Cat. No. P1104-10, -50)

FOR RESEARCH USE ONLY! Not to be used on humans.