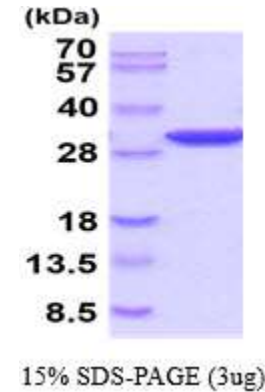


Phosphoglycerate mutase 2, human recombinant

CATALOG NO:	P1103-10 10 µg P1103-50 50 µg
ALTERNATE NAMES:	GSD10, PGAM-M, PGAMM, PGAM2
CONCENTRATION:	1 mg/ml (determined by Bradford assay)
SOURCE:	Phosphoglycerate mutase 2 recombinant protein was expressed in <i>E.coli</i> and fused to His-tag at N-terminus (1-253aa).
PURITY:	> 95% by SDS-PAGE
MOL. WEIGHT:	This protein is fused with 6x His tag at C terminus and the protein has a calculated MW of 30.9 kDa (253aa)
FORM:	Liquid
FORMULATION:	20mM Tris-HCl buffer (pH8.0) containing 20% glycerol, 0.1M NaCl, 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:	MGSSHHHHHH SSGLVPRGSH MATHRLVMVR HGESTWNQEN RFCGWFDAEL SEKGTEEAKR GAKAIKDAKM EFDICYSVL KRAIRTLWAI LDGTDQMWLP VVRTWRLNER HYGGLTGLNK AETAAKHGEE QVKIWRRSFD IPPPPMDEKH PYYNSISKER RYAGLKPGE LPTCESLKDTI ARALPFWNEE IVPQIKAGKR VLIAAHGNSL RGIVKHLEGM SDQAIMELNL PTGIPIVYEL NKKELKPTKPM QFLGDEETVR KAMEAVAAQG KAK
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 deficiency, also known as glycogen storage disease X. Recombinant human PGAM2 protein, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography.
BIOLOGICAL ACTIVITY:	Specific activity is >100 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.



Human recombinant PGAM2

RELATED PRODUCT:

- 6-Phosphogluconic Acid (6-PGA) Assay Kit (Colorimetric) (Cat. No. K217-100)

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