

Recombinant Human Phosphoglycerate Mutase 2 (muscle), His-tagged

Cat. No. PGAM2-1932H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant humanPGAM2 protein,fused to His-tag at N-terminus, was expressed in E. coli and purified byusing conventional chromatography.
Species	Human
ProteinLength	1-253 aa
Description	PGAM2, also known asphosphoglyceratemutase 2, belongs to the phosphoglycerate mutase family.Phosphoglycerate mutase (PGAM) catalyzes the reversible reaction of3-phosphoglycerate (3-PGA) to 2-phosphoglycerate (2-PGA) in the glycolyticpathway. 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 encodesmuscle-specific PGAM subunit. Mutations in this gene cause musclephosphoglycerate mutase efficiency, also known as glycogen storage disease X.
Form	Liquid. 20mMTris-HCl buffer (pH8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT.
Molecular Weight	30.9 kDa (273aa)confirmed by MALDI-TOF
Purity	> 95%by SDS-PAGE
Concentration	1 mg/ml (determinedby Bradford assay)

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Sequences of aminoacids	MGSSHHHHHHSSGLVPRGSH MATHRLVMVR HGESTWNQEN RFCGWFDAEL SEKGTEEAKR GAKAIKDAKMEFDICYTSVL KRAIRTLWAI LDGTDQMWLP VVRTWRLNER HYGGTLGLNK AETAAKHGEE QVKIWRRSFDIPPPPMDEKH PYYNSISKER RYAGLKPGEI PTCESLKDTI ARALPFWNEE IVPQIKAGKR VLIAAHGNSLRGIVKHLEGM SDQAIMELNL PTGIPIVYEL NKEKPTKPM QFLGDEETVR KAMEAVAAQG KAK
Storage	Can bestored at +4°C short term (1-2 weeks). For long term storage, aliquot andstore at -20°C or -70°C. Avoidrepeated freezing and thawing cycles.
Pathways	Gluconeogenesis; Glucose metabolism;Glycolysis; Glycolysis (Embden-Meyerhof pathway); Glycolysis / Gluconeogenesis; Glycolysisand Gluconeogenesis; Metabolic pathways; MetRabolism of carbohydrates
GENE INFORMATION	
Gene Name	PGAM2 phosphoglycerate mutase 2(muscle) [Homo sapiens]
Official Symbol	PGAM2
Synonyms	PGAM2;phosphoglycerate mutase 2 (muscle); GSD10; PGAMM; PGAM-M; phosphoglyceratemutase 2; BPG-dependent PGAM 2; phosphoglycerate mutase isozyme M;muscle-specific phosphoglycerate mutase
Gene ID	5224
mRNA Refseq	NM_000290
Protein Refseq	NP_000281
MIM	612931

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UniProt ID	P15259
Chromosome Location	7p13-p12
Function	2,3-bisphosphoglycerate-dependentphosphoglycerate mutase activity ; bisphosphoglycerate 2-phosphataseactivity; bisphosphoglycerate mutase activity; cofactor binding ; hydrolaseactivity ; isomerase activity ; phosphoglycerate mutase activity

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