

Recombinant Human Phosphoglycerate Mutase 1 (Brain), His-tagged

Cat. No. PGAM1-2786H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PGAM protein (1-254aa), fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	1-254 a.a.
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.
Sequences	MGSSHHHHHH SSSLVPRGSH MAAYKLVLIR HGESAWNLEN RFSGWYDADL SPAGHEEAKR GGQALRDAGY EFDICFTSVQ KRAIRTLWTV LDAIDQMWLP VVRTWRLNER HYGGLTGLNK AETAAKHGEA QVKIWRRSYD VPPPPMEPDH PFYSNISKDR RYADLTEDQL PSCESLKDTI ARALPFWNEE IVPQIKEGKR VLIAAHGNSL RGIVKHLEGL SEEAIMELNL PTGIPIVYEL DKNLKPDKPM

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QFLGDEETVR KAMEAVAAQG KAKK.

Form	Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 0.1M NaCl, 1mM DTT, 10% glycerol.
Molecular Weight	30.9kDa (274aa), confirmed by MALDI-TOF.
Purity	> 90% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).
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.

GENE INFORMATION

Gene Name	PGAM1 phosphoglycerate mutase 1 (brain) [Homo sapiens]
Synonyms	PGAM1; phosphoglycerate mutase 1 (brain); BPG-dependent PGAM 1; phosphoglycerate mutase 1; phosphoglycerate mutase A, nonmuscle form; phosphoglycerate mutase isozyme B; EC 3.1.3.13; EC 5.4.2.1; EC 5.4.2.4
Gene ID	5223
mRNA Refseq	NM_002629
Protein Refseq	NP_002620
MIM	172250
UniProt ID	P18669

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Chromosome Location	10q25.3
Pathway	Glycolysis / Gluconeogenesis; Metabolic pathways
Function	2,3-bisphospho-D-glycerate 2-phosphohydrolase activity;bisphosphoglycerate mutase activity;hydrolase activity;isomerase activity;phosphoglycerate mutase activity; protein kinase binding

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