### **Product information**



## PGAM2, 1-253aa

### Human, His-tagged, Recombinant, E.coli

Cat. No. IBATGP3428

Full name: Phosphoglycerate mutase 2 NCBI Accession No.: NP\_000281

Synonyms: 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

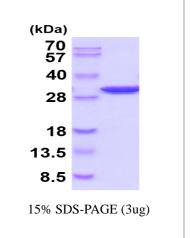
Molecular Weight: 30.9 kDa (273aa) confirmed by MALDI-TOF

Purity: > 95% by SDS - PAGE.

**Concentration:** 1 mg/ml (determined by Bradford assay)

**Biological activity:** Specific activity is > 100units/mg, in which One unit will convert 1.0 umole of 3-phosphoglycerate to 2-phosphoglcerate per minute at

pH 7.6 at 37C.



#### Sequences of amino acids:

MGSSHHHHHH SSGLVPRGSH MATHRLVMVR HGESTWNQEN RFCGWFDAEL SEKGTEEAKR GAKAIKDAKM EFDICYTSVL KRAIRTLWAI LDGTDQMWLP VVRTWRLNER HYGGLTGLNK AETAAKHGEE QVKIWRRSFD IPPPPMDEKH PYYNSISKER RYAGLKPGEL PTCESLKDTI ARALPFWNEE IVPQIKAGKR VLIAAHGNSL RGIVKHLEGM SDQAIMELNL PTGIPIVYEL NKELKPTKPM QFLGDEETVR KAMEAVAAQG KAK

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



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#### **General references:**

Tsujino S., *et al.* (1989) *J. Biol. Chem.* 264:15334-15337 Hadjigeorgiou G.M., *et al.* (1999) *Neuromuscul. Disord.* 9:399-402

**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.

