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## 32-6879: PGAM1 Mouse, Active

**Application:** Functional Assay

Alternative Name: Phosphoglycerate mutase 1, BPG-dependent PGAM 1, Phosphoglycerate mutase isozyme B, PGAM-B,

Pgam1, Pgam-1, 2310050F24Rik.

## **Description**

Source: Escherichia Coli.

Sterile Filtered clear colorless solution.

PGAM1 is part of the phosphoglycerate mutase family. PGAM1 is an essential component 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. PGAM1 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). PGAM1 mutations lead to muscle phosphoglycerate mutase deficiency, a.k.a. glycogen storage disease X.

PGAM1 Mouse Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 278 amino acids (1-254) and having a molecular mass of 31.4kDa.PGAM1 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

## **Product Info**

**Amount :** 2 μg / 10 μg

**Purification:** Greater than 95% as determined by SDS-PAGE.

Content: The PGAM1 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 20% glycerol, 0.1M NaCl

and 1mM DTT.

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of

Storage condition: time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid

multiple freeze-thaw cycles.

Amino Acid: MGSSHHHHHH SSGLVPRGSH MGSHMAAYKL VLIRHGESAW NLENRFSGWY DADLSPAGHE

EAKRGGQALR DAGYEFDICF TSVQKRAIRT LWTVLDAIDQ MWLPVVRTWR LNERHYGGLT GLNKAETAAK HGEAQVKIWR RSYDVPPPPM EPDHPFYSNI SKDRRYADLT EDQLPSCESL KDTIARALPF WNEEIVPQIK EGKRVLIAAH GNSLRGIVKH LEGLSEEAIM ELNLPTGIPI

VYELDKNLKP IKPMQFLGDE ETVRKAMEAV AAQGKVKK.

## **Application Note**

Specific activity is >150units/mg, in which One unit will convert 1.0 umole of 3-phosphoglycerate to 2-phosphoglcerate per minute at pH 7.6 at 37C.