# PGK1 Protein, Mouse (sf9, His)

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| **Cat. No.:** | HY-P74634 |
| **Synonyms:** | Phosphoglycerate kinase 1; Primer recognition protein 2; PGK1; PGKA |
| **Species:** | Mouse |
| **Source:** | Sf9 insect cells |
| **Accession:** | P09411 (M1-V417) |
| **Gene ID:** | 18655 |
| **Molecular Weight:** | Approximately 46 kDa |

## PROPERTIES

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| **Biological Activity** | The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet. |
| **Appearance** | Lyophilized powder |
| **Formulation** | Lyophilized from a 0.2 μm filtered solution of 20 mM Tris, 500 mM NaCl, pH 7.4. |
| **Endotoxin Level** | <1 EU/μg, determined by LAL method. |
| **Reconsititution** | It is not recommended to reconstitute to a concentration less than 100 μg/mL in $ddH_2O$. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose). |
| **Storage & Stability** | Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage. |
| **Shipping** | Room temperature in continental US; may vary elsewhere. |

## DESCRIPTION

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| **Background** | PGK1 protein, a pivotal contributor to cellular energy dynamics, orchestrates a fundamental step in the glycolytic pathway by catalyzing the reversible conversion of 1,3-diphosphoglycerate to 3-phosphoglycerate, thereby playing a central role in ATP production. Beyond its established glycolytic function, PGK1 exhibits versatility as it appears to act as a polymerase alpha cofactor protein, potentially involved in primer recognition processes. This dual functionality highlights PGK1's significance beyond its canonical role in glycolysis. Furthermore, there is an special suggestion that PGK1 may be implicated in sperm motility, hinting at its potential involvement in reproductive processes. In essence, PGK1 emerges as a multifaceted protein, influencing both energy metabolism and cellular functions, thus contributing to the intricacies of cellular physiology. |

**Caution: Product has not been fully validated for medical applications. For research use only.**

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