

# Recombinant Mouse Pgk1, His-tagged

**Cat. No.** Pgk1-52M    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant mouse Pgk1, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.                                                                                                                                                                                                                                                                                                                              |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Description</b>      | Pgk1 also known as Phosphoglycerate kinase 1 is an X-linked enzyme that plays a key role in the glycolytic pathway. Pgk1 acts as a polymerase alpha cofactor protein (primer recognition protein) as a glycolytic enzyme role. This protein catalyzes the reversible conversion of 1,3-diphosphoglycerate to 3-phosphoglycerate during glycolysis, generating one molecule of ATP.                                                                                         |
| <b>Form</b>             | Liquid, In Phosphate buffered saline (pH7.4) containing 10% glycerol, 1mM DTT                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Molecular Mass</b>   | 47.1kDa (441aa) confirmed by MALDI-TOF                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>AA Sequence</b>      | MGSSHHHHHH SGLVPRGSH MGSMSLSNK LTLDKLDVKG KRVVMRVDFN<br>VPMKNNQITN NQRIKAAVPS IKFCLDNGAK SVVLMShLGR PDGVPMPDKY<br>SLEPVAAELK SLLGKDVFL KDCVGPEVEN ACANPAAGTV ILLENLRFHV<br>EEEKGKGDAS GNKVKAEPK IDAFRASLSK LGDVYVND AF GTAHRAHSSM<br>VGVNLPQKAG GFLMKKELNY FAKALES PER PFLAILGGAK VADKIQLINN<br>MLDKVNEMII GGGMAFTFLK VLNNMEIGTS LYDEEGAKIV KDLMSKA EKN<br>GVKITLPVDF VTADKFDENA KTGQATVASG IPAGWMGLDC GTESSKKYAE<br>AVGRAKQIVW NGPVGVFWE AFARGTKSLM DEVVKATSRG CITIIGGGDT |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

ATCCAKWNT DKVSHVSTGG GASLELLEGK VLPGVDALSN V

**Purity** >90% by SDS - PAGE

**Storage** Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

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

## GENE INFORMATION

**Gene Name** [Pgk1 phosphoglycerate kinase 1 \[ Mus musculus \]](#)

**Official Symbol** Pgk1

**Synonyms** PGK1; phosphoglycerate kinase 1; Pgk-1; MGC118097;

**Gene ID** [18655](#)

**mRNA Refseq** [NM\\_008828](#)

**Protein Refseq** [NP\\_032854](#)

**Pathway** Gluconeogenesis, organism-specific biosystem; Gluconeogenesis, oxaloacetate =>fructose-6P, organism-specific biosystem; Gluconeogenesis, oxaloacetate => fructose-6P, conserved biosystem; Glucose metabolism, organism-specific biosystem; Glycolysis, organism-specific biosystem;

**Function** ADP binding; ATP binding; kinase activity; nucleotide binding; phosphoglycerate kinase activity; phosphoglycerate kinase activity; transferase activity;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA