

## 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 SSGLVPRGSH MGSMSLSNK LTLDKLDVKG KRVVMRVDFN VPMKNNQITN NQRIKAAVPS IKFCLDNGAK SVVLMSHLGR PDGVPMPPDKY SLEPVADELK SLLGKDVFL KDCVGPEVEN ACANPAAGTV ILLENLRFHV EEEGKGDAS GNKVKAEPAK IDAFRASLSK LGDVYVND AF GTAHRAHSSM VGVNLPQKAG GFLMKKELNY FAKALES PER PFLAILGGAK VADKIQLINN MLDKVNEMII GGGMAFTFLK VLNNMEIGTS LYDEEGAKIV KDLMSKA EKN GVKITLPVDF VTADKFDENA KTGGQATVASG IPAGWMGLDC GTESSK KYAE AVGRAKQIVW NGPVG VFEWE AFARGTKSLM DEVVKATSRG CITIIGGGDT

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ATCCAKWNTE DKVSHVSTGG GASLELLEGK VLPQVDALSN 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;

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