

Recombinant Mouse Pgk1, His-tagged

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

SPECIFICATION

Product Overview	Recombinant mouse Pgk1, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Mouse
Source	E.coli
Description	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.
Form	Liquid, In Phosphate buffered saline (pH7.4) containing 10% glycerol, 1mM DTT
Molecular Mass	47.1kDa (441aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SGLVPRGSH MGSMSLSNK LTLDKLDVKG KRVVMRVDFN VPMKNNQITN NQRIKAAVPS IKFCLDNGAK SVVLMSHLGR PDGVPMPPDKY SLEPVAAELK SLLGKDVFL KDCVGPEVEN ACANPAAGTV ILLENLRFHV EEEGKGKDAS GNKVKAEPK IDAFRASLSK LGDVYVND AFVGTAAHRAHSSM VGVNLPQKAG GFLMKKELNY FAKALES PERPFLAILGGAK VADKIQLINN MLDKVNEMII GGGMAFTFLK VLNNMEIGTS LYDEEGAKIV KDLMSKA EKN GVKITLPVDF VTADKFDENA KTGQATVASG IPAGWMGLDC GTESSKKYAE AVGRAKQIVW NGPVGVFWE AFARGTKSLM DEVVKATSRG CITIIGGGDT

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ATCCAKWNTE 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;

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