

Recombinant Human Phosphoglycerate Kinase 2, His-tagged

Cat. No. PGK2-981H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PGK2 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.
Species	Human
Source	E.coli
Description	PGK2 is a testis-specific form of phosphoglycerate kinase. Initially assumed to be a pseudogene, this protein is actually a functional phosphoglycerate kinase that catalyzes the reversible conversion of 1,3-bisphosphoglycerate to 3-phosphoglycerate, during the Embden-Meyerhof-Parnas pathway of glycolysis, in the later stages of spermatogenesis.
Form	Liquid. In 20mM Tris-HCl buffer(pH 8.0) containing 20% glycerol, 1mM DTT, 0.1M NaCl.
Molecular Weight	46.9 kDa (437aa), confirmed by MALDI-TOF.
Purity	> 85% by SDS-PAGE
Concentration	0.5 mg/ml (determined by Bradford assay)
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MSLSKKLTLD KLDVRGKRVI MRVDFNVPMK KNQITNNQRI KASIPSIKYC LDNGAKAVVL MSHLGRPDGVMPDKYSLAP VAVELKSLLG KDVLFLLKDCV GAEVEKACAN PAPGSVILLE NLRFHVEEEG

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KGQDPSGKKI KAEPDKIEAF RASLSKLGDVYVNDAGTAH RAHSSMVGVN
 LPHKASGFLM KKELDYFAKA LENPVRPFLA ILGGAKVADK IQLIKNMLDK
 VNEMIIGGGM AYTFLLKVLNNMEIGASLFDE EGAKIVKDIM AKAQKNGVRI
 TFPVDFVTGD KFDENAQVGK ATVASGISPG WMGLDCGPES NKNHAQVVAQ
 ARLIVWNGPLGVFEWDAFAK GTKALMDEIV KATSKGCITV IGGGDTATCC
 AKWNTEDKVS HVSTGGGASL ELLEGKILPG VEALSNM

Storage

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

Pathways

Gluconeogenesis; Glycolysis (Embden-Meyerhof pathway); Glycolysis /
 Gluconeogenesis; Glycolysis and Gluconeogenesis; Glycolysis; Metabolic pathways

GENE INFORMATION

Gene Name

PGK2 phosphoglycerate kinase 2 [Homo sapiens]

Official Symbol

PGK2

Synonyms

PGK2; phosphoglycerate kinase 2; PGKB; PGKPS; dJ417L20.2;
 OTTHUMP00000016591; phosphoglycerate kinase, testis specific; phosphoglycerate
 kinase autosomal pseudogene; EC 2.7.2.3; PGK-2; Phosphoglycerate kinase, testis
 specific; dJ417L20.2

Gene ID

5232

mRNA Refseq

NM_138733

Protein Refseq

NP_620061

MIM

172270

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UniProt ID	P07205
Chromosome Location	6p12.3
Function	ATP binding; nucleotide binding; phosphoglycerate kinase activity; transferase activity
PDB rendering based on 3B2B.	

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