

# Recombinant Human Phosphoglycerate Kinase 1, His-tagged

**Cat. No.** PGK1-915H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	PGK1 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 437 amino acids ( 1-417 a.a.) and having a molecular mass of 46.8 kDa. PGK1 is fused to 20 a.a. His-Tag at N-terminus and purified by proprietary chromatographic techniques.
<b>Species</b>	Human
<b>Source</b>	Human
<b>ProteinLength</b>	1-417 a.a.
<b>Description</b>	PGK1 is an X-linked enzyme that has a major role in the glycolytic pathway. PGK1 is a glycolytic enzyme which catalyzes the conversion of 1,3-diphosphoglycerate to 3-phosphoglycerate, generating an ATP molecule.
<b>Form</b>	The PGK1 solution containing 20 mM Tris ( pH 8.0 ), 10 % Glycerol and 1mM DTT.
<b>Purity</b>	Greater than 95.0 % as determined by SDS-PAGE.
<b>Physical Appearance</b>	Sterile filtered colorless solution.
<b>Amino acid sequence</b>	MGSSHHHHHH SSGLVPRGSH MSLSNKLTLD KLDVKGKRVV MRVDFNVPMK NNQITNNQRI KAAVPSIKFC LDNGAKSVVL MSHLGRPDGV PMPDKYSLEP VAVELKSLLG KDVFLFKDCV GPEVEKACAN PAAGSVILLE NLRFHVEEEG KKGKASGNKV KAEPAKIEAF RASLSKLGDV YVNDAFGTAH RAHSSMVGVN

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LPQKAGGFLM KKELNYFAKA LESPERPFLA ILGGAKVADK IQLINNMLDK  
 VNEMIIGGGM AFTFLKVLNN MEIGTSLFDE EGAKIVKDLM SKAEKNGVKI  
 TLPVDFVTAD KFDENAKTGQ ATVASGIPAG WMGLDCGPES SKKYAEAVTR  
 AKQIVWNGPV GVFEWEAFAR GTKALMDEVV KATSRGCITI IGGGDTATCC  
 AKWNTEDKVS HVSTGGGASL ELLEGKVLPG VDALSNI

**Storage**

PGK1 although stable at 4°C for 1 week, should be stored below -18°C. For long term storage it is recommended to add a carrier protein (0.1 % HSA or BSA). Please prevent freeze thaw cycles.

**GENE INFORMATION**

**Gene Name** PGK1 phosphoglycerate kinase 1 [ Homo sapiens ]

**Official Symbol** PGK1

**Synonyms** PGK1; phosphoglycerate kinase 1; PGKA; MIG10; MGC8947; MGC117307; MGC142128; phosphoglycerate kinase 1; PRP 2; OTTHUMP00000023595; primer recognition protein 2; cell migration-inducing gene 10 protein

**Gene ID** 5230

**mRNA Refseq** NM\_000291

**Protein Refseq** NP\_000282

**MIM** 311800

**UniProt ID** P00558

**Chromosome** Xq13.3

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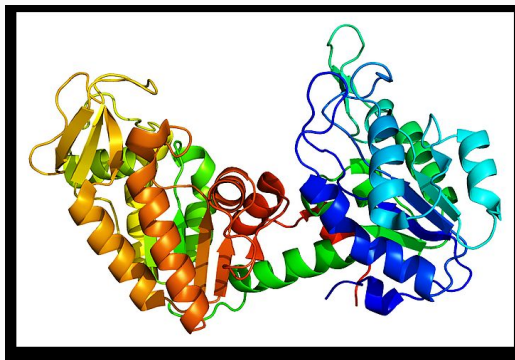
**Location****Pathway**

Gluconeogenesis; Glucose metabolism; Glycolysis; Glycolysis / Gluconeogenesis; Glycolysis and Gluconeogenesis; HIF-1-alpha transcription factor network; Metabolic pathways; Metabolism of carbohydrates

**Function**

ATP binding; nucleotide binding; phosphoglycerate kinase activity; transferase activity

PDBrendering based  
on 1hdi



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