

Recombinant Human Phosphoglycerate Kinase 1, His-tagged

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	Human
ProteinLength	1-417 a.a.
Description	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.
Form	The PGK1 solution containing 20 mM Tris (pH 8.0), 10 % Glycerol and 1mM DTT.
Purity	Greater than 95.0 % as determined by SDS-PAGE.
Physical Appearance	Sterile filtered colorless solution.
Amino acid sequence	MGSSHHHHHH SSGLVPRGSH MSLSNKLTD KLDVKGKRVV MRVDFNVPMK NNQITNNQRI KAAVPSIKFC LDNGAKSVVL MSHLGRPDGV PMPDKYSLEP VAVELKSLLG KDVLFKDCV GPEVEKACAN PAAGSVILLE NLRFHVEEEG KGKDASGNKV KAEPKIEAF 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 	