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 MSLSNKLTLD KLDVKGKRVV MRVDFNVPMK NNQITNNQRI KAAVPSIKFC LDNGAKSVVL MSHLGRPDGV PMPDKYSLEP VAVELKSLLG KDVLFLKDCV GPEVEKACAN PAAGSVILLE NLRFHVEEEG KGKDASGNKV KAEPAKIEAF RASLSKLGDV YVNDAFGTAH RAHSSMVGVN

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	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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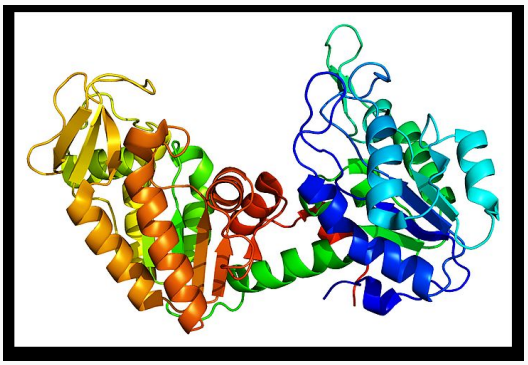
Location	
Pathway	Gluconeogenesis; Glucose metabolism; Glycolysis; Glycolysis / Gluconeogenesis; Glycolysis and Gluconeogenesis; HIF-1-alpha transcription factor network; Metabolic pathways; Metabolism of carbohydrates
Function	ATP binding; nucleotide binding; phosphoglycerate kinase activity; transferase activity
PDBrendering based on 1hdi	

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