Active Recombinant Human PGK2 Protein, His-tagged

Cat. No. PGK2-3982H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PGK2 protein (1-417aa), fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.
Species	Human
Source	E.coli
ProteinLength	1-417
Description	This gene is intronless, arose via retrotransposition of the phosphoglycerate kinase 1 gene, and is expressed specifically in the testis. Initially assumed to be a pseudogene, the encoded 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
Bio-activity	> 500 unit/mg. One unit will convert 1 umole of 1,3-Bisphosphoglycerate to 3-PGA per minute at pH 8.0 at 37 centigrade.
Molecular Mass	46.9 kDa (437aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHHSSGLVPRGSHMSLSKKLTLDKLDVRGKRVIMRVDFNVPMKKNQITN NQRIKASIPSIKYCLDNGAKAVVLMSHLGRPDGVPMPDKYSLAPVAVELKSLLGKDV

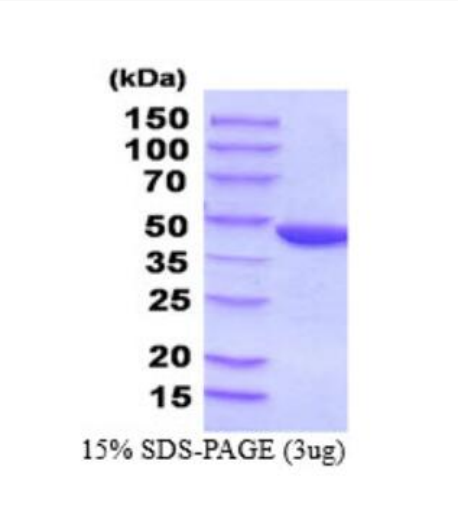
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	LFLKDCVGAEVEKACANPAPGSVILLENLRFHVEEEGKGQDPSGKKIKAEPDKIEAFR ASLSKLGDVYVNDAFGTAHRAHSSMVGVNLPHKASGFLMKKELDYFAKALENPVRP FLAILGGAKVADKIQLIKNMLDKVNEMIIGGGMAYTFLKVLNNMEIGASLFDEEGAKIV KDIMAKAQKNGVRITFPVDFVTGDKFDENAQVGKATVASGISPGWMGLDCGPESNK NHAQVVAQARLIVWNGPLGVFEWDAFAKGTKALMDEIVKATSKGCITVIGGGDTATC CAKWNTEDKVSHVSTGGGASLELLEGKILPGVEALSNM
Purity	> 95% by SDS-PAGE
Applications	Enzyme Activity, SDS-PAGE
Storage	Can be stored at 2 to 8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.5 mg/mL (determined by Bradford assay)
Storage Buffer	20 mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 1 mM DTT, 0.1 M NaCl

GENE INFORMATION

Gene Name	PGK2 phosphoglycerate kinase 2 [Homo sapiens (human)]
Official Symbol	PGK2
Synonyms	PGK2; phosphoglycerate kinase 2; PGKB; PGKPS; HEL-S-272; dJ417L20.2; phosphoglycerate kinase 2; epididymis secretory protein Li 272; phosphoglycerate kinase autosomal pseudogene; phosphoglycerate kinase, testis specific; testicular tissue protein Li 139; EC 2.7.2.3
Gene ID	5232

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mRNA Refseq	NM_138733
Protein Refseq	NP_620061
MIM	172270
UniProt ID	P07205
SDS-PAGE	 15% SDS-PAGE (3ug) 3 μg by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

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