

# Recombinant human PGK2 protein

Catalog Number: ATGP1349

## PRODUCT INFORMATION

**Expression system**

E.coli

**Domain**

1-417aa

**UniProt No.**

P07205

**NCBI Accession No.**

NP\_620061

**Alternative Names**

Phosphoglycerate kinase 2, dj417L20.2, PGKB, PGKPSS

## PRODUCT SPECIFICATION

**Molecular Weight**

46.9 kDa (437aa) confirmed by MALDI-TOF

**Concentration**

0.5mg/ml (determined by Bradford assay)

**Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 1mM DTT, 0.1M NaCl

**Purity**

> 85% by SDS-PAGE

**Tag**

His-Tag

**Application**

SDS-PAGE

**Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

**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. Recombinant human PGK2 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

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## Amino acid Sequence

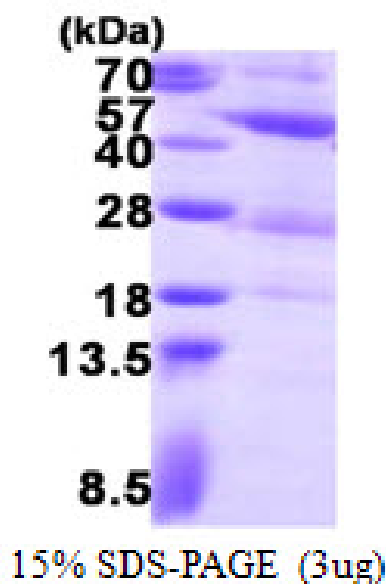
MGSSHHHHHH SSGLVPRGSH MSLSKKLTLD KLDVRGKRVI MRVDFNVPMK KNQITNNQRI KASIPSIKYC LDNGAKAVVL  
MSHLGRPDGV PMPDKYSLAP VAVELKSLG KDVLFLKDCV GAEVEKACAN PAPGSVILLE NLRFHVEEEG KGQDPSGKKI  
KAEPDKIEAF RASLSKLGDV YVNDAFGTAH RAHSSMVGVN LPHKASGFLM KKELDYFAKA LENPVRPFLA ILGGAKVADK  
IQLIKNMLDK VNEMIIGGGM AYTFLKVLNN MEIGASLFDE EGAKIVKDIM AKAQKNGVRI TFPVDFVTGD KFDENAQVGK  
ATVASGISPG WMGLDCGPES NKNHAQVVAQ ARLIVWNGPL GVFEWDFAFAK GTKALMDEIV KATSKGCITV IGGGDTATCC  
AKWNTEDKVS HVSTGGGASL ELLEGKILPG VEALSNM

## General References

Svaasand EK. et al. (2007) Muscle Nerve. 36:679-84.  
Valentin C. et al. (1998) Hum Mutat. 12(4):280-7.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.