

# Recombinant human PGK2 protein

Catalog Number: ATGP3287

## 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

> 95% by SDS-PAGE

### Biological Activity

Specific activity is > 500unit/mg. One unit will convert 1 umole of 1,3-Bisphosphoglycerate to 3-PGA per minute at pH 8.0 at 37C.

### Tag

His-Tag

### Application

Enzyme Activity, 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

# Recombinant human PGK2 protein

Catalog Number: ATGP3287

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.

## Amino acid Sequence

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

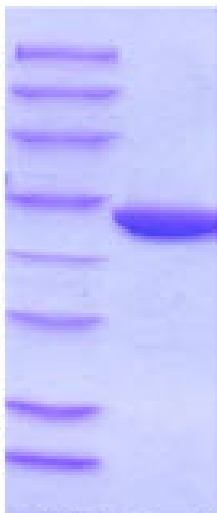
## General References

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

## DATA

### SDS-PAGE

(kDa)  
**150**  
**100**  
**70**  
**50**  
**35**  
**25**  
**20**  
**15**



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

15% SDS-PAGE (3ug)