

# Recombinant human PCK1 protein

Catalog Number: ATGP1372

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-622aa

### UniProt No.

P35558

### NCBI Accession No.

AAH23978.1

### Alternative Names

Phosphoenolpyruvate carboxykinase 1, Phosphoenolpyruvate carboxykinase 1, PEPCK-C, PEPCK1, PEPCKC

## PRODUCT SPECIFICATION

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### Molecular Weight

71.7 kDa (646aa)

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 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

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### Description

Phosphoenolpyruvate carboxykinase 1, also known as PCK1, is a main control point for the regulation of gluconeogenesis. PCK1 plays an important role in this process by stimulating hepatic glucose production. The expression of PCK1 can be regulated by insulin, glucocorticoids, glucagon, cAMP, and diet. Modulation of the signals governing PCK1 levels presents a potential therapeutic approach to the treatment of Insulin resistance and consequently obesity. Recombinant human PCK1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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## Amino acid Sequence

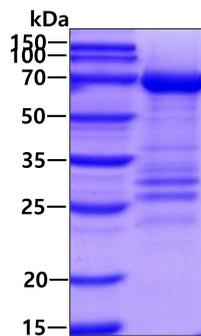
<MGSSHHHHHH SSGLVPRGSH MGSH>MPPQLQ NGLNLSAKVV QGSLDSPQA VREFLENNAE LCQPDHIHC  
DGSEENGRL LGQMEEEGIL RRLKKYDNCW LALTDPRDVA RIESKTVIVT QEQRDTVPIV KTGLSQLGRW MSEEDFEKAF  
NARFPGCMKG RTMYVIPFSM GPLGSPLSKI GIELTDSPIV VASMRIMTRM GTPVLEALGD GEFVKCLHSV GCPLPLQKPL  
VNNWPCNPEL TLIAHLPDRR EIISFGSGYG GNSLLGKKCF ALMASRLAK EEGWLAEHML VLGITNPEGE KKYLAAPPS  
ACGKTNLMM NPSLPGWKVE CVGDDIAWMK FDAQGHRLAI NPENGGFVA PGTSVKTNPN AIKTIQKNTI FTNVAETSDG  
GVYWEGIDEP LASGVTITSW KNKEWSSDGE EPCAHNSRF CTPASQCPII DAAWESPEGV PIEGIIFGGR RPAGVPLVYE  
ALSWQHGVFV GAAMRSEATA AAHKGKIIM HDPFAMRPFY GYNFGKYLAL WLSMAQHPAA KLPKIFHVNW FRKDKEGKFL  
WPGFGNSRV LEWMFNRIIDG KASTKLTPIG YIPKEDALNL KGLGHINMME LFSISKEFWE KEVEDIEKYL EDQVNADLPC  
EIEREILALK QRISQM

## General References

Barthel A., et al. (2003) Am J Physiol Endocrinol Metab. 285:685-692.  
Wang Y., et al. (1991) J Cell Physiol. 147:374-382.

## DATA

### SDS-PAGE



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.