

## 32-3071: PCK1 Recombinant Protein

**Alternative Name :** Phosphoenolpyruvate carboxykinase 1 (soluble),PEPCK-C,PEPCK1,PEP carboxykinase,phosphoenolpyruvate carboxykinase cytosolic [GTP],EC 4.1.1.32.

### Description

Source : E.coli. PCK1 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 646 amino acids (1-622) and having a molecular mass of 71.7kDa.PCK1 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. PCK1 is a central regulating point for the regulation of gluconeogenesis. PCK1 has a vital part in this process by stimulating hepatic glucose production. The expression of PCK1 is controlled by insulin, cAMP, glucagon, glucocorticoids and diet. Modulation of the signals controlling PCK1 levels offers a possible therapeutic tactic to the treatment of Insulin resistance and subsequently obesity.

### Product Info

**Amount :** 10 µg

**Purification :** Greater than 90% as determined by SDS-PAGE.

**Content :** The PCK1 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 100mM NaCl, 1mM DTT and 10% glycerol.

**Storage condition :** Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.

**Amino Acid :** MGSSHHHHHH SSSLVPRGSH MGSHMPPQLQ NGLNLSAKVV QGSLDSLPA VREFLENNAE  
LCQPDHIIHC DGSEEENGRL LGQMEEEGIL RRLKKYDNCW LALDPRDVA RIESKTIVIT QEQRDTVPIPI  
KTGLSQLGRW MSEEDFEKAF NARFPGCMKG RTMYVIPFSM GPLGSPLSKI GIELTDSPIV VASMRIMTRM  
GTPVLEALGD GEFVKCLHSV GCPLPLQKPL VNNWPCNPEL TLIAHLPDRR EIISFGSGYG GNSLLGKKCF  
ALRMASRLAK EEGWLAEHML VLGITNPEGE KKYLAAPFP ACGKTNLMM NPSLPGWKVE  
CVGDDIAWMK FDAQGHRLAI NPENGGFVA PGTSVKTNP AIKTIQKNTI FTNVAETSDG GYVWEGIDEP  
LASGVTITSW KNKEWSSDGE EPCAHPNSRF CTPASQCPII DAAWESPEGV PIEGIFGGR RPAGVPLVYE  
ALSWQHGVFV GAAMRSEATA AAHKGKIIM HDPFAMRPF GYNFGKYLAH WLSMAQHPAA  
KLPKIFVNW FRKDKGKFL WPGFGNSRV LEWMFNRIDG KASTKLTPIG YIPKEDALNL KGLGHINMME  
LFSISKEFWE KEVEDIEKYL EDQVNADLPC EIEREILALK QRISQM.

