

**PCK1, 1-622aa, Human, His tag, E.coli**

**Cat.NO.: TP03305**

3th Edition

**Synonyms:** Phosphoenolpyruvate carboxykinase 1, PEPCK-C, PEPCK1, PEPCKC.

**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.

**Form:** Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 0.1M NaCl

**Molecular Weight:** 71.7 kDa (646aa)

**Sequences:**

MGSSHHHHHSSGLVPRGSHMGSHMPPQLQNGLNLSAKVVQGSLSLDPQAVREFLENNALCQPDHIIHICDGSE  
EENGRLLGQMEEEGILRRLKKYDNCWLALTDPRDVARIKSTVIVTQEQRDTVPIPKTGLSQLGRWMSEEDFEKAF  
NARFPGCMKGRMYVIPFSMGLGSPKIGIELTDSYVVASMRIMTRMGTPVLEALGDGEFVKCLHSVGCPPLPL  
QKPLVNNWPCNPELTIAHLPDRREIISFGSGYGGNSLLGKKCFALRMASRLAKEEGWLAEHMLVLGITNPEGEKKY  
LAAAFPSACGKTNLMMNPSPGKVECVGDDIAWMKFDAQGHLRAINPENGFFGVAPGTSVKTNPNAIKTIQKNT  
IFTNVAETSDGGVYWEGIDEPLASGVTITSWKNKEWSSDGEPCAHNPSRFCTPASQCPIDAAWESPEGVPIEGIIF  
GGRRPAGVPLVYEALSWQHGVFVGAAMRSEATAAAEHKGKIMHDPFAMRPFYNGFYNGKYLAHWLSMAQHAAK  
LPKIFHVNWFRKDKGKFLWPGFGNSRVLEWFMFNRIDGKASTKLTPIGYIPKEDALNLKGLGHINMMELFSISKEF  
WEKEVEDIEKYLEQVNADLPCEIEREILALKQRISQM

**Purity:** > 95% by HPLC

**Concentration:** 0.5 mg/ml (determined by Bradford assay)

**Endotoxin Level:** <1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.