

Recombinant Human PCK1, His-tagged

Cat. No. PCK1-29962TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length protein of Human PCK1 fused to His tag at N-terminus, 646 amino acids with a predicted MWt 71.7kDa.
Species	Human
Source	E.coli
ProteinLength	622 amino acids
Description	This gene is a main control point for the regulation of gluconeogenesis. The cytosolic enzyme encoded by this gene, along with GTP, catalyzes the formation of phosphoenolpyruvate from oxaloacetate, with the release of carbon dioxide and GDP. The expression of this gene can be regulated by insulin, glucocorticoids, glucagon, cAMP, and diet. Defects in this gene are a cause of cytosolic phosphoenolpyruvate carboxykinase deficiency. A mitochondrial isozyme of the encoded protein also has been characterized.
Conjugation	HIS
Molecular Weight	71.700kDa inclusive of tags
Tissue specificity	Major sites of expression are liver, kidney and adipocytes.
Form	Liquid

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Purity	>90% by SDS-PAGE
Storage buffer	pH: 8.00 Constituents: 0.32% Tris HCl, 10% Glycerol, 0.02% DTT, 0.58% Sodium chloride
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C long term. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MGSHPMPQLQ NGLNLSAKVV QGSLDSLPGA VREFLENNAE LCQPDHIHIC DGSEEENGR L GQMEEEGIL RRLKKYDNCW LALTDPRDVA RIESKTVIVT QEQRDTVPIP KTGLSQLGRW MSEEDFEKAF NARFPGCMKG RTMYVIPFSM GPLGSPLSKI GIELTDSPIV VASMRIMTRM GTPVLEALGD GEFVKCLHSV GCPLPLQKPL VNNWPCNP EL TLIAHLPDRR EIISFGSGYG GNSLLGKKCF ALRMASRLAK EEGWLAEHML VLGITNPEGE KKYLAAAFPS ACGKTNLMM NPSLPGWKVE CVGDDIAWMK FDAQGHLRAI NPENGFFGVA PGTSVKTNPN AIKTIQKNTI FTNVAETSDG GVIWEGIDEP LASGVTITSW KNKEWSSDGE ECAHPNSRF CTPASQCP II DAAWESPEGV PIEGIIFGGR RPAGVPLVYE ALSWQHGVFV GAAMRSEATA AAHKGKIIM HDPFAMRPFF GYNFGKYLAH WLSMAQH PAA KLPKIFHVNW FRKDKEGKFL WPGFGENSRV LEWMFNRI DG KASTKLTPIG YIPKEDALNL KGLGHINMME LFSISKEFWE KEVEDIEKYL EDQVNADLPC EIEREILALK QRISQM
Sequence Similarities	Belongs to the phosphoenolpyruvate carboxykinase [GTP] family.
GENE INFORMATION	
Gene Name	PCK1 phosphoenolpyruvate carboxykinase 1 (soluble) [Homo sapiens]
Official Symbol	PCK1

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Synonyms	PCK1; phosphoenolpyruvate carboxykinase 1 (soluble); phosphoenolpyruvate carboxykinase, cytosolic [GTP]; PEPCK C;
Gene ID	5105
mRNA Refseq	NM_002591
Protein Refseq	NP_002582
MIM	614168
Uniprot ID	P35558
Chromosome Location	20q13.31
Pathway	Adipocytokine signaling pathway, organism-specific biosystem; Adipocytokine signaling pathway, conserved biosystem; Adipogenesis, organism-specific biosystem; Citrate cycle (TCA cycle), organism-specific biosystem; Citrate cycle (TCA cycle), conserved biosystem;
Function	GDP binding; GTP binding; carboxylic acid binding; lyase activity; magnesium ion binding;