

Recombinant Human PCK1 protein, GST-tagged

Cat. No. PCK1-30553TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PCK1(1 a.a. - 622 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.
Species	Human
Source	Wheat Germ
ProteinLength	1-622 a.a.
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.
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	94.16 kDa
AA Sequence	MPPQLQNGLNLSAKVVQGSLDSPQAVREFLENNALCQPDHIIHICDGSEEENGRLLGQMEEEGILRRLKKYDNCWLALTDPRDVARIESKTVIVTQEQRDTVPIPKTGLSQLGRWMSEEDFEKAFNARFPGCMKGRMTMYVIPFSMGPLGSPLSKIGIELTDSPIYVASM RIMTRMGTPVLEALGDGEFVKCLHSGCPLPLQKPLVNNWPCNPELTIAHLDPDRRE

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IISFGSGYGGNSLLGKKCFALRMASRLAKEEGWLAEHMLVLGITNPEGEKKYLAAAF
 PSACGKTNLAMMNPSLPGWKVECVGDDIAWMKFDAQGHLRAINPENGFFGVAPGT
 SVKTNPNAIKTIQKNTIFTNVAETSDGGVYWEGIDEPLASGVTITSWKNKEWSSDGG
 EPCAHPNSRFCTPASQCPIDAAWESPEGVPIEGIIIFGGRRPAGVPLVYEALSWQHG
 VFVGAAMRSEATAAAEHKGKIIMHDPFAMRPFFGYNFGKYLAHWLSMAQHPPAAKLP
 KIFHVNWFRKDKEGKFLWPGFGENSRVLEWMFNRIDGKASTKLTPIGYIPKEDALNL
 KGLGHINMMELFSISKEFWEKEVEDIEKYLEQVNADLPCEIEREILALKQRISQM

Applications

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);
 Antibody Production; Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name

PCK1 phosphoenolpyruvate carboxykinase 1 (soluble) [Homo sapiens]

Official Symbol

PCK1

Synonyms

PCK1; phosphoenolpyruvate carboxykinase 1 (soluble); phosphoenolpyruvate
 carboxykinase, cytosolic [GTP]; PEPCK C; PEP carboxykinase; phosphopyruvate
 carboxylase; phosphoenolpyruvate carboxylase; phosphoenolpyruvate
 carboxykinase, cytosolic; PEPCK1; PEPCKC; PEPCK-C; MGC22652;

Gene ID

5105

mRNA Refseq

NM_002591

Protein Refseq

NP_002582

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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; Developmental Biology, organism-specific biosystem; FOXA2 and FOXA3 transcription factor networks, organism-specific biosystem;
Function	GDP binding; GTP binding; carboxylic acid binding; lyase activity; magnesium ion binding; manganese ion binding; phosphoenolpyruvate carboxykinase (GTP) activity; purine nucleotide binding;
	