

Product datasheet for **TP304758**

PCK1 (NM_002591) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human phosphoenolpyruvate carboxykinase 1 (soluble) (PCK1), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC204758 protein sequence Red =Cloning site Green =Tags(s)

MPPQLQNGLNLSAKVVQGSLDSLQPQAVREFLENNALCQPDHIIHICDGSEEENGRLLGQMEEEGILRRLK
KYDNCWLALDPRDVARIESTVIVTQEQRDTPVIPKTGLSQLGRWMSEEDFEKAFNARFPGCMKGRMTMY
VIPFSMGPLGSPLSKIGIELTDSPIYVASMTRMGTPVLEALGDGEFVKCLHSVGCPPLQKPLVNNW
PCNPELTIAHLPDRREIISFGSGYGGNSLLGKKCFALRMASRLAKEEGWLAEHMLVLGITNPEGEKKYL
AAAFPSACGKTNLAMMNPSPGKWKVECVGDDIAWMKFDAQGHLRAINPENGFFGVAPGTSVKTNPNAIKT
IQKNTIFTNVAETSDGGVYWEGIDEPLASGVITTSWKNKEWSSEDGEPCAHPNSRFCTPASQCPIIDAAW
ESPEGVPIEGIIIFGGRRPAGVPLVYEALSWQHGVFVGAAMRSEATAAAEHKGIIMHDPFAMRPFPGYNF
GKYLAHWLSMAQHPAAKLPKIFHVNWFRKDKGKFLWPGFGENSRVLEWMFNRIDGKASTKLTPIGYIPK
EDALNLKGLGHINMMELFSISKEFWEKEVEDIEKYLEQVNADLPCEIEREILALKQRISQM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

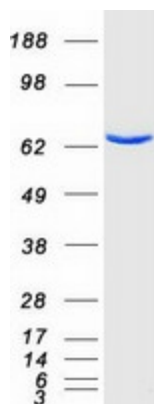
Tag:	C-Myc/DDK
Predicted MW:	69 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



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Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_002582
Locus ID:	5105
UniProt ID:	P35558
RefSeq Size:	2692
Cytogenetics:	20q13.31
RefSeq ORF:	1866
Synonyms:	PCKDC; PEPCK-C; PEPCK1; PEPCKC
Summary:	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. [provided by RefSeq, Jul 2008]
Protein Families:	Druggable Genome
Protein Pathways:	Adipocytokine signaling pathway, Citrate cycle (TCA cycle), Glycolysis / Gluconeogenesis, Insulin signaling pathway, Metabolic pathways, PPAR signaling pathway, Pyruvate metabolism

Product images:



Coomassie blue staining of purified PCK1 protein (Cat# TP304758). The protein was produced from HEK293T cells transfected with PCK1 cDNA clone (Cat# [RC204758]) using MegaTran 2.0 (Cat# [TT210002]).