

Recombinant Human PCK1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PCK1-1666H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PCK1 MS Standard C13 and N15-labeled recombinant protein (NP_002582) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	69.2 kDa
AA Sequence	MPPQLQNGLNLSAKVVQGSLSLPQAVREFLENNALCQPDHIIHICDGSEEENGRL LGQMEEEGILRRLKKYDNCWLALTDPRDVARIESTVIVTQEQRDTVPIPKTGLSQLG RWMSEEDFEKAFNARFPGCMKGRRTMYVIPFSMGPLGSPLSKIGIELTDSPLYVASM RIMTRMGTPVLEALGDGEFVKCLHSGCPLPLQKPLVNNWPCNPELTIAHLPPDRRE IISFGSGYGGNSLLGKKCFALRMASRLAKEEGWLAEHMLVLGITNPEGEKKYLAAAF PSACGKTNLAMMNPSLPGWKVECVGDDIAWMKFDAQGHRLAINPENGGFFGVAPGT

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SVKTNPNAIKTIQKNTIFTNVAETSDGGVYWEGIDEPLASGVTITSWKNKEWSSDGG
 EPCAHPNSRFCTPASQCPIIDAAWESPEGVPIEGIIIFGGRRPAGVPLVYEALSWQHG
 VFVGAAMRSEATAAAEHKGKIIMHDPFAMRPFFGYNFGKYLAHWLSMAQHPPAAKLP
 KIFHVNWFRKDKEGKFLWPGFGENSRVLEWMFNRIDGKASTKLTPIGYIPKEDALNL
 KGLGHINMMELFSISKEFWEKEVEDIEKYLEQVNADLPCEIEREILALKQRISQMTRT
 RPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name PCK1 phosphoenolpyruvate carboxykinase 1 [Homo sapiens (human)]

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

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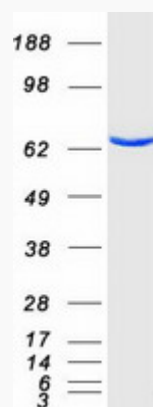
mRNA Refseq NM_002591

Protein Refseq NP_002582

MIM 614168

UniProt ID P35558

SDS-PAGE



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