



# Recombinant Human Phosphoenolpyruvate carboxykinase, cytosolic [GTP] (PCK1)

<b>Product Code</b>	CSB-MP017613HU
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P35558
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	MPPQLQNGLN LSAKVVQGSL DSLPQAVREF LENNAELCQP DHIHICDGSE EENGRLLGQM EEGILRRLK KYDNCWLALT DPRDVVARIES KTVIVTQEQR DTVPIPKTGL SQLGRWMSEE DFEKAFNARF PGCMKGRTMY VIPFSMGPLG SPLSKIGIEL TDSPYVVASM RIMTRMGTPV LEAVGDGEFV KCLHSVGCP PLQKPLVNNW PCNPELTIA HLPDRREIIS FGSGYGGNSL LGKKCFALRM ASRLAKEEGW LAEHMLILGI TNPEGEKKYL AAAPSACGK TNLAMMNP PGWKVECVGD DIAWMKFDAQ GHLRAINPEN GFFGVAPGTS VKTNPNAIKT IQKNTIFTNV AETSDGGVYW EGIDEPLASG VTITSWKNKE WSSEDGEPCA HPNSRFCTPA SQCPIDA AW ESPEGVPIEG IIFGGRRPAG VPLVYEALSW QHGVFVGAAM RSEATAAAEH KGKIIMHDPF AMRPFPGYNF GKYLAWLSM AQHPAAKLPK IFHVNWFRKD KEGKFLWPGF GENSRVLEWM FNRIDGKAST KLTPIGYIPK EDALNLKGLG HINMMELFSI SKEFWEKEVE DIEKYLEQV NADLPCEIER EILALKQRIS QM
<b>Source</b>	Mammalian cell
<b>Target Names</b>	PCK1
<b>Protein Names</b>	Recommended name: Phosphoenolpyruvate carboxykinase, cytosolic [GTP] Short name= PEPCK-C EC= 4.1.1.32 Alternative name(s): Phosphoenolpyruvate carboxylase
<b>Expression Region</b>	1-622
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full length protein
<b>Target Details</b>	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.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the



contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.