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

Product Code	CSB-BP017613HU
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P35558
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	≥85% (SDS-PAGE)
Sequence	MPPQLQNGLN LSAKVVQGSL DSLPQAVREF LENNAELCQP DHIHICDGSE EENGRLLGQM EEEGILRRLK KYDNCWLALT DPRDVARIES KTVIVTQEQR DTVPIPKTGL SQLGRWMSEE DFEKAFNARF PGCMKGRTMY VIPFSMGPLG SPLSKIGIEL TDSPYVVASM RIMTRMGTPV LEAVGDGEFV KCLHSVGCPL PLQKPLVNNW PCNPELTLIA HLPDRREIIS FGSGYGGNSL LGKKCFALRM ASRLAKEEGW LAEHMLILGI TNPEGEKKYL AAAFPSACGK TNLAMMNPSL PGWKVECVGD DIAWMKFDAQ GHLRAINPEN GFFGVAPGTS VKTNPNAIKT IQKNTIFTNV AETSDGGVYW EGIDEPLASG VTITSWKNKE WSSEDGEPCA HPNSRFCTPA SQCPIIDAAW ESPEGVPIEG IIFGGRRPAG VPLVYEALSW QHGVFVGAAM RSEATAAAEH KGKIIMHDPF AMRPFFGYNF GKYLAHWLSM AQHPAAKLPK IFHVNWFRKD KEGKFLWPGF GENSRVLEWM FNRIDGKAST KLTPIGYIPK EDALNLKGLG HINMMELFSI SKEFWEKEVE DIEKYLEDQV NADLPCEIER EILALKQRIS QM
Source	Baculovirus
Target Names	PCK1
Protein Names	Recommended name: Phosphoenolpyruvate carboxykinase, cytosolic [GTP] Short name= PEPCK-C EC= 4.1.1.32 Alternative name(s): Phosphoenolpyruvate carboxylase
Expression Region	1-622
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full length protein
Target Details	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.
Reconstitution	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.
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.