



Recombinant Rat Phosphoenolpyruvate carboxykinase, cytosolic [GTP] (Pck1)

Product Code	CSB-YP017613RA
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P07379
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	>85% (SDS-PAGE)
Sequence	MPPQLHNGLD FSAKVIQGS L DSLPQEV RKF VEGNAQLCQP EYIHICDGSE EEYGRLLAHM QEEGVIRK LK KYDNCWLALT DPRDVARI ES KTVIITQEQR DTVPIPKSGQ SQLGRWMSEE DFEKAFNARF PGCMKGR TMY VIPFSMGPLG SPLAKIGIEL TDSPYVVASM RIMTRMG TSV LEALGDGEFI KCLH SVGCPL PLKKPLVNNW ACNPELT LIA HLPDRREI IS FGSGYGGNSL LGKKCFALRI ASRLAKEEGW LAEHMLILGI TNPEGK KKYL AA AFPSACGK TNLAMMNPTL PGWKVECVGD DIAWMKFDAQ GNLRAINPEN GFFGVAPG TS VKTNPNAIKT IQKNTIFTNV AETSDGGVYW EGIDEPLAPG VTITSWKNKE WRPQDEEPCA HPNSRFCTPA SQCPIDPAW ESPEGVPIEG IIFGGRRPAG VPLVYEALSW QHGVFVGAAM RSEATAAAEH KGKVMHDPF AMRPFFGYNF GKYL AHWLSM AHRPAAKLPK IFHVNWFRKD KNGKFLWPGF GENSRVLEWM FGRIEGEDSA KLTPIGYVPK EDALNLKGLG DVNVEELFGI SKEFWEKEVE EIDKYLEDDQV NADLPYEIER ELRALKQRIS QM
Source	Yeast
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.