



Recombinant Human Phosphoenolpyruvate carboxykinase [GTP], mitochondrial (PCK2)

Product Code	CSB-MP619092HU
Abbreviation	PCK2
Storage	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.
Uniprot No.	Q16822
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	LSGDLGQL PTGIRDFVEH SARLCQPEGI HICDGTEAEN TATLTLLEQQ GLIRKLPKYN NCWLARTDPK DVARVESKTV IVTPSQRDTV QLPPGGARGQ LGNWMSPADF QRAVDERFPG CMQGRTMYVL PFSMGPVGSP LSRIGVQLTD SAYVVASMRI MTRLGTPVLQ ALGDGDFVKC LHSVGGQPLTG QGEPVSQWPC NPEKTLIGHV PDQREIISFG SGYGGNSLLG KKCFCALRIAS RLARDEGWLA EHMLILGITS PAGKKRYVAA AFPSACGKTN LAMMRPALPG WKVECVGDDI AWMRFDSEGR LRAINPENGF FGVAPGTSAT TNPNAMATIQ SNTIFTNVAE TSDGGVYWEG IDQPLPPGVT VTSWLGKPKWK PGDKEPCAHP NSRFCAPARQ CPIMDPAWEA PEGVPIDAI FGGRRPKGVP LVYEAFNWRH GVFVGSAMRS ESTAAAHEHG KIIMHDPFAM RPFPGYNFGH YLEHWLSMEG RKGAQLPRIF HVNWFRRDEA GHFLWPGFGE NARVLDWICR RLEGEDSARE TPIGLVPKEG ALDLSGLRAI DTTQLFSLPK DFWEQEV RDI RSYLTEQV NQ DLPKEVLAE L EALERRVHKM
Source	Mammalian cell
Target Names	PCK2
Protein Names	Recommended name: Phosphoenolpyruvate carboxykinase [GTP], mitochondrial Short name= PEPCCK-M EC= 4.1.1.32 Alternative name(s): Phosphoenolpyruvate carboxylase
Expression Region	33-640
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 of Mature Protein
Target Details	This gene encodes a member of the phosphoenolpyruvate carboxykinase (GTP) family. The protein is a mitochondrial enzyme that catalyzes the conversion of oxaloacetate to phosphoenolpyruvate in the presence of GTP. A cytosolic form encoded by a different gene has also been characterized and is the key enzyme



of gluconeogenesis in the liver. The encoded protein may serve a similar function, although it is constitutively expressed and not modulated by hormones such as glucagon and insulin that regulate the cytosolic form. Alternatively spliced transcript variants have been described.

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.