



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

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| Product Code | CSB-EP619092HU-B |
| 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 CMQGRMYVL PFSMGPVGSP LSRIGVQLTD SAYVVASMRI MTRLGTPVLQ ALGDGDFVKC LHSVGGQPLTG QGEPVSQWPC NPEKTLIGHV PDQREIISFG SGYGGNSLLG KKCFFALRIAS RLARDEGWLA EHMLILGITS PAGKKRYVAA AFPSACGKTN LAMMRPALPG WKVECVGDDI AWMRFDSEGR LRAINPENGF FGVAPGTSAT TNPNAMATIQ SNTIFTNVAE TSDGGVYWEG IDQPLPPGVT VTSWLGKPKWK PGDKEPCAHP NSRFCAPARQ CPIMDPAWEA PEGVPIDAI FGGRRPKGVP LVYEAFNWRH GVFVGSAMRS ESTAAAHEHG KIIMHDPFAM RPPFFGYNFGH YLEHWLSMEG RKGAQLPRIF HVNWFRRDEA GHFLWPFGFE NARVLDWICR RLEGEDSARE TPIGLVPKEG ALDLSGLRAI DTTQLFSLPK DFWEQEV RDI RSYLTEQV NQ DLPKEVLAEL EALERRVHKM |
| Source | E.coli |
| 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

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