

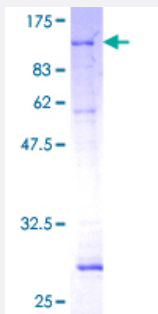
Full-Length

PCK2 (Human) Recombinant Protein (P01)

Catalog # H00005106-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human PCK2 full-length ORF (AAH01454, 1 a.a. - 640 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MAALYRPGLRLNWHGLSPLGWPSCRSIQTLRVLSGDLGQLPTGIRDFVEHSARLCQPEGIHICDGT
EAENTATLTLEQQGLIRKLPKYNNCWLARTDPKDVARVESKTVIVTPSQRDVPLPPGGARGQL
GNWMSPADFQRAVDERFPGCMQGRMYLVPFSMGPVGSPLSRIGVQLTDSAYVVASMRIMTRL
GTPVLQALGDGDFVKCLHSVGQPLTGQGEPVSQWPCNPEKTLIGHVPDQREIISFGSGYGGNSLL
GKKCFALRIASRLARDEGWLAEHMLILGITSPAGKKRYAAAFPSACGKTNLAMMRPALPGWKVE
CVGDDIAWMRFDSEGRRLRAINPENGFFGVAPGTSATTNPAMATIQSNTIFTNVAETSDGGVYWE
GIDQPLPPGVTVTSWLGPWKPGDKEPCAHPNSRFCAPARQCPIMDPAWEAPEGVPIAIIFFGG
RRPKGVPPLVYEAFNWRHGVFVGSAMRSESTAAAEHKGKIIMHDPFAMRPFFGYNFGHYLEHWLS
MEGRKGAQLPRIFHVNWFRRDEAGHFLWPGFGENARVLDWICRRLEGEDSARETPIGLVPKEGA
LDLSGLRAIDTTQLFSLPKDFWEQEVRDIRSYLTEQVNQDLPKEVLAELEALERRVHKM

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

96.14

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — PCK2

Entrez GeneID	5106
GeneBank Accession#	BC001454
Protein Accession#	AAH01454
Gene Name	PCK2
Gene Alias	PEPCK, PEPCK-M, PEPCK2
Gene Description	phosphoenolpyruvate carboxykinase 2 (mitochondrial)
Omim ID	261650
Gene Ontology	Hyperlink
Gene Summary	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. [provided by RefSeq]
Other Designations	OTTHUMP00000164700 PEP carboxykinase mitochondrial phosphoenolpyruvate carboxykinase 2 phosphoenolpyruvate carboxylase phosphopyruvate carboxylase

Publication Reference

- [Anti-phosphoenolpyruvate carboxykinase 2 antibody in patients with autoimmune hepatitis.](#)

Kanno Y, Watanabe H, Takahashi A, Abe K, Ohira H.

Hepatology Research 2014 Sep; 44(9):1019.

Application: ELISA, Human, Serum

Pathway

- [Adipocytokine signaling pathway](#)
- [Citrate cycle \(TCA cycle\)](#)
- [Glycolysis / Gluconeogenesis](#)
- [Insulin signaling pathway](#)
- [Metabolic pathways](#)
- [PPAR signaling pathway](#)
- [Pyruvate metabolism](#)

Disease

- [Diabetes Mellitus](#)