

# Product datasheet for AR50197PU-S

### PCK1 / PEPCK1 (1-622, His-tag) Human Protein

#### **Product data:**

#### OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

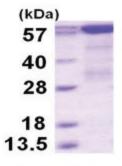
Product Type:	Recombinant Proteins
Description:	PCK1 / PEPCK1 (1-622, His-tag) human recombinant protein, 50 μg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MGSSHHHHHH SSGLVPRGSH MGSHMPPQLQ NGLNLSAKVV QGSLDSLPQA VREFLENNAE LCQPDHIHIC DGSEEENGRL LGQMEEEGIL RRLKKYDNCW LALTDPRDVA RIESKTVIVT QEQRDTVPIP KTGLSQLGRW MSEEDFEKAF NARFPGCMKG RTMYVIPFSM GPLGSPLSKI GIELTDSPYV VASMRIMTRM GTPVLEALGD GEFVKCLHSV GCPLPLQKPL VNNWPCNPEL TLIAHLPDRR EIISFGSGYG GNSLLGKKCF ALRMASRLAK EEGWLAEHML VLGITNPEGE KKYLAAAFPS ACGKTNLAMM NPSLPGWKVE CVGDDIAWMK FDAQGHLRAI NPENGFFGVA PGTSVKTNPN AIKTIQKNTI FTNVAETSDG GVYWEGIDEP LASGVTITSW KNKEWSSEDG EPCAHPNSRF CTPASQCPII DAAWESPEGV PIEGIIFGGR RPAGVPLVYE ALSWQHGVFV GAAMRSEATA AAEHKGKIIM HDPFAMRPFF GYNFGKYLAH WLSMAQHPAA KLPKIFHVNW FRKDKEGKFL WPGFGENSRV LEWMFNRIDG KASTKLTPIG YIPKEDALNL KGLGHINMME LFSISKEFWE KEVEDIEKYL EDQVNADLPC EIEREILALK QRISQM
Tag:	His-tag
Predicted MW:	71.7 kDa
Concentration:	lot specific
Purity:	>90% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT, 10% glycerol, 0.1M NaCl
Preparation:	Liquid purified protein
Protein Description:	Recombinant human PCK1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Storage:	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	<u>NP 002582</u>



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	PCK1 / PEPCK1 (1-622, His-tag) Human Protein – AR50197PU-S
Locus ID:	5105
UniProt ID:	<u>P35558</u>
Cytogenetics:	20q13.31
Synonyms:	PCKDC; PEPCK-C; PEPCK1; PEPCKC
Summary:	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. [provided by RefSeq, Jul 2008]
Protein Families:	Druggable Genome
Protein Pathway	<b>s:</b> Adipocytokine signaling pathway, Citrate cycle (TCA cycle), Glycolysis / Gluconeogenesis, Insulin signaling pathway, Metabolic pathways, PPAR signaling pathway, Pyruvate metabolism

## **Product images:**



15% SDS-PAGE (3ug)

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