

Product datasheet for **AR50197PU-S**

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

Product data:

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 MGSHPMPQLQ NGLNLSAKW QGSLDSLPA VREFLENNAE LCQPDHIHC DGSEENGRL LGQMEEEGIL RRLKKYDNCW LALDPRDVA RIESKTVIVT QEQRDTVPIIP KTGLSQLGRW MSEEDFEKAF NARFPGCMKG RTMYVIPFSM GPLGSPLSKI GIELTDSPIV VASMRIMTRM GTPVLEALGD GEFVKCLHSV GCPLPLQKPL VNNWPCNPEL TLIAHLPDRR EIISFGSGYG GNSLLGKKCF ALRMASRLAK EEGWLAEHML VLGITNPEGE KKYLAAAFPS ACGKTNLMM NPSLPGWKVE CVGDDIAWMK FDAQGHRLAI NPENGGFGVA PGTSVKTNPN AIKTIQKNTI FTNVAETSDG GYVWEGIDEP LASGVTITSW KNKEWSSDGE EPCAHPNRSR CTPASQCPII DAAWESPEGV PIEGIIFGGR RPAGVPLVYE ALSWQHGVFV GAAMRSEATA AAEHKGIIM HDPFAMRPF GYNFGKYLAH WLSMAQHAA KLPKIFHVNW FRKDKGKFL WPGFGNSRV 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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Locus ID:	5105
UniProt ID:	P35558
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 Pathways:	Adipocytokine signaling pathway, Citrate cycle (TCA cycle), Glycolysis / Gluconeogenesis, Insulin signaling pathway, Metabolic pathways, PPAR signaling pathway, Pyruvate metabolism

Product images: