
Product Data Sheet

Product Name: PCK1 Human
 Cat. No.: GP22575
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Phosphoenolpyruvate carboxykinase 1 (soluble); PEPCK-C; PEPCK1; PEP carboxykinase; phosphoenolpyruvate carboxykinase cytosolic [GTP]; EC 4.1.1.32.		
Amino Acid Sequence	<p>MGSSHHHHHH SGLVPRGSH MGSHPMPQLQ NGLNLSAKVV QGSLDSL PQA VREFLENNAE LCQPDHIHIC DGSEEENGRL LGQMEEEGIL RRLKKYDNCW LALTDPRDVA RIESKTVIVT QEQRDTVPIPI KTGLSQLGRW MSEEDFEKAF NARFPGCMKG RTMYVIPFSM GPLGSPLSKI GIELTDSPIV VASMRIMTRM GTPVLEALGD GEFVKCLHSV GCPLPLQKPL VNNWPCNPEL TLIAHLPDRR EIISFGSGYG GNSLLGKKCF ALRMASRLAK EEGWLAEHML VLGITNPEGE KKYLAAPFPS ACGKTNLMM NPSLPGWKVE CVGDDIAWMK FDAQGH LRAI NPENGGFGVA PGTSVKTNPN AIKTIQKNTI FTNVAETSDG GVIWEGIDEP LASGVTITSW KNKEWSSDGE EPCAHPNSRF CTPASQCPII DAAWESPEGV PIEGIIFGGR RPAGVPLVYE ALSWQHGVFV GAAMRSEATA AAEHKGKIIM HDPFAMRPFY GYNFGKYLAL WLSMAQH PAA KLPKIFHVNW FRKDKEGKFL WPGFGNSRV LEWMFNRIDG KASTKLTPIG YIPKEDALNL KGLGHINMME LFSISKEFWE KEVEDIEKYL EDQVNADLPC EIEREILALK QRISQM.</p>		
Formulation	The PCK1 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 100mM NaCl, 1mM DTT and 10% glycerol.		

Introduction

PCK1 is a central regulating point for the regulation of gluconeogenesis. PCK1 has a vital part in this process by stimulating hepatic glucose production. The expression of PCK1 is controlled by cAMP, glucocorticoids, diet etc. Modulation of the signals controlling PCK1 levels offers a possible therapeutic tactic to the treatment of Diabetes and subsequently obesity.

Caution: Product has not been fully validated for medical applications. For research use only.

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Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

PCK1 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 646 amino acids (1-622) and having a molecular mass of 71.7kDa. PCK1 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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