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PCK1 Human

Description: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.

Catalog #:PKPS-025

For research use only.

Synonyms: Phosphoenolpyruvate carboxykinase 1 (soluble), PEPCK-C, PEPCK1, PEP carboxykinase, phosphoenolpyruvate carboxykinase cytosolic [GTP], EC 4.1.1.32.

Source:E.coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence:MGSSHHHHHH SSGLVPRGSH MGSHMPPQLQ NGLNLSAKVV QGSLDSLPQA VREFLENNAE LCQPDHIHIC DGSEEENGRL LGQMEEEGIL RRLKKYDNCW LALTDPRDVA RIESKTVIVT QEQRDTVPIP KTGLSQLGRW MSEEDFEKAF NARFPGCMKG RTMYVIPFSM GPLGSPLSKI GIELTDSPYV VASMRIMTRM GTPVLEALGD GEFVKCLHSV GCPLPLQKPL VN

Purity: Greater than 90% as determined by SDS-PAGE.

Formulation:
The PCK1 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 100mM NaCl, 1mM DTT and 10% glycerol.

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.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drµgs, agricultural or pesticidal products, food additives or household chemicals.

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 insulin, cAMP, glucagon, glucocorticoids and diet. Modulation of the signals controlling PCK1 levels offers a possible therapeutic tactic to the treatment of Insulin resistance and subsequently obesity.

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