

Phosphoenolpyruvate Carboxykinase 1 Human Recombinant

Item Number	rAP-1667
Synonyms	Phosphoenolpyruvate carboxykinase 1 (soluble), PEPCK-C, PEPCK1, PEP carboxykinase, phosphoenolpyruvate carboxykinase cytosolic [GTP], EC 4.1.1.32.
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.
Uniprot Accession Number	P35558
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSHPMPQLQ NGLNLSAKVV QGSLDSLPA VREFLENNAE LCQPDHIIHC DGSEEENGRL LGQMEEEGIL RRLKKYDNCW LALTDPRDVA RIESKTVIVT QEQRDTVPIPI KTGLSQLGRW MSEEDFEKAF NARFPGCMKG RTMYVIPFSM GPLGSPLSKI GIELTDSPIYV VASMIRIMTRM GTPVLEALGD GEFVKCLHSV GCPLPLQKPL VNNWPCNPPEL TLIAHLPDRR EISFGSGYG GNSLLGKKCF ALRMASRLAK EEGWLAEHML VLGITNPEGE KKYLAFAFPS AC- GKTNLMM NPSLPGWKVE CVGDDIAWMK FDAQGHRLAI NPENGFFGVA PGTSVKTNPN AIKTIQKNTI FTNVAETSDG GYVWEGIDEP LASGVITISW KNKEWSSSDG EPCAHPNSRF CTPASQCPII DAAWESPEGV PIEGIIFGGR RPAGVPLVYE ALSWQHGVFV GAAMRSEATA AAHKGKIIM
Source	E.coli.
Physical Appearance and Stability	Sterile Filtered colorless solution. 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.
Formulation and Purity	The PCK1 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 100mM NaCl, 1mM DTT and 10% glycerol. Greater than 90% as determined by SDS-PAGE.
Application	
Solubility	
Biological Activity	
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**