Data Sheet (Cat.No.TMPY-04764)

TargetMol

PCK2 Protein, Human, Recombinant (His & GST)

General Information

Synonyms:	PEPCK-M;PEPCK2;PEPCK;phosphoenolpyruvate carboxykinase 2 (mitochondrial)
Protein Construction:	A DNA sequence encoding the human PCK2 (NP_004554.3) (Leu33-Met640) was expressed with a C-terminal polyhistidine-tagged GST tag at the N-terminus (his-GST). Predicted N terminal: Met
Species:	Human
Expression Host:	Baculovirus Insect Cells
Accession:	Q16822-1
Molecular Weight:	94.9 kDa (predicted)

QC Testing

Biological Activity:	Kinase activity untested
Purity:	> 90 % as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Supplied as sterile 20 mM Tris, 500 mM NaCl, 10%glycerol, pH 8.0.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store the product under sterile conditions at -20°C to -80°C. Samples are stable for up to 12 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

PCK2 promotes tumor initiation by lowering acetyl-CoA level through reducing the mitochondrial tricarboxylic acid (TCA) cycle. The levels of phosphoenolpyruvate carboxykinase isoform 2 (PCK2) are critical for the metabolic switch and the maintenance of TICs in prostate cancer. PCK2 is a potential therapeutic target for aggressive prostate tumors.

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