

Native Porcine Creatine-Phospho-Kinase

Cat. No. CK-5379P **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native Pig CK was expressed in porcine heart.
Species	Pig
Source	Porcine Heart
Description	Creatine kinase(CK), also known as creatine phosphokinase (CPK) or phospho-creatine kinase(and sometimes incorrectly as creatinine kinase), is an enzyme expressed byvarious tissues and cell types. CK catalyses the conversion of creatine andconsumes adenosine triphosphate (ATP) to create phosphocreatine (PCr) andadenosine diphosphate (ADP). This CK enzyme reaction is reversible, such thatalso ATP can be generated from PCr and ADP. Creatine Kinase (CK) enzymeconsists of two subunits, which can be either B (brain type) or M (muscle type). Three different isoenzymes exist: CKBB, CKMM, and CKMB.
Form	Lyophilized
Unit Definition	One unit willtransfer one micromole of phosphate from creatine phosphate to ADP per minuteat 37oC. Measured at 340 nm as one equimolar amount of NADH produced by acoupled reaction.
Storage	Stored at -20°C.1 year.
Concentration	Typically >0.7mg/ml

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GENE INFORMATION

Gene Name	CMPK1 cytidine monophosphate (UMP-CMP) kinase 1, cytosolic [Homo sapiens]
Official Symbol	CMPK1
Synonyms	CMPK1; cytidine monophosphate (UMP-CMP) kinase 1, cytosolic; CMPK, cytidylate kinase; UMP-CMP kinase; Cytidine monophosphate kinase; UMP CMP kinase; UMP CMPK; UMP/CMP kinase; cytidylate kinase; deoxycytidylate kinase; uridine monophosphate kinase; uridin
Gene ID	51727
mRNA Refseq	NM_001136140
Protein Refseq	NP_001129612
MIM	191710
UniProt ID	P30085
Chromosome Location	1p34.1-p33
Pathway	Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of nucleotides, organism-specific biosystem; Pyrimidine metabolism, organism-specific biosystem; Pyrimidine metabolism, conserved biosystem; Pyrimidine ribonucleotide biosynthesis, UMP =>UDP/UTP,CDP/CTP, organism-specific biosystem;
Function	ATP binding; cytidylate kinase activity; nucleotide binding; phosphotransferase

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activity, phosphate group as acceptor; transferase activity; uridine kinase activity;

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