

CKM, CKB Native Porcine Creatine Kinase

Catalog No.	CSI14897A CSI14897B	Quantity:	25 KU 500 KU	
Alternate Names:	CK, Creatine Phospho-Kinase, CPK			
Description:	Creatine kinase (CK) s an enzyme that consists of two subunits, which can be either B (brain type) or M (muscle type). Three different isoenzymes exist: CKBB, CKMM, and CKMB. This enzyme expressed by various tissues and cell types. Heart muscle expresses CKMM at 70%, CKMB at 25-30%. CK catalyses the conversion of creatine and consumes adenosine triphosphate (ATP) to create phosphocreatine (PCr) and adenosine diphosphate (ADP). This CK enzyme reaction is reversible, so that also ATP can be generated from PCr and ADP. Creatine kinase's clinical significance: detection of heart disease, liver disease, diseases of the central nervous system and thyroid disease.			
Concentration:	≥ 0.7 mg protein/total mg (Coomassie)			
UniProt ID:	Q5XLD3 M-type, Q29594 B-type			
Source:	Porcine Heart			
Appearance:	white to pink lyophilized powder			
Formulation:	Lyophilized from 1 mM DTT, 1.5 mM EDTA, pH adjusted to 7.0 with glacial acetic acid.			
Contaminants:	ALP: < 0.01% LDH: < 0.01% ALT/GPT: < 0.01% GOT/AST: < 1% Ammonia: < 0.01 micromole/mg			
Specific Activity:	≥ 720 U/mg (Dimension® Clinical Chemistry System)			
Reconstitution:	Reconstitute protein at 0.1- pH 7.0	econstitute protein at 0.1-1.0 mg/ml with 20 mM Tris-acetate, 1 mM DTT, 1 mM EDTA, 1 7.0		
Unit Definition:		unit will transfer one micromole of phosphate from creatine phosphate to ADP per ute @ 37°C. Measured at 340 nm as one equimolar amount of NADH produced by a pled reaction.		
Storage & Stability:	• •	C to -80°C for up to 1 year. Upon reconstitution, prepare at -20°C to -80°C. Avoid repeated freeze-thaw cycles.		
NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.				

