

## CKM, CKB Native Porcine Creatine Kinase

Catalog No.	CSI19647A CSI19647B	Quantity:	25 KU 250 KU	
Alternate Names:	CK, Creatine Phosphokinase, 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 solid (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:	GOT/AST: $\leq 1\%$ LDH: $< 1\%$ ALP: $< 0.01\%$ GPT/ALT: $< 0.01\%$ Ammonia: $\leq 0.05$ micromole/mg			
Specific Activity:	≥ 400 U/mg (Dimension® Cl	g (Dimension® Clinical Chemistry System)		
Unit Definition:		ble of phosphate from Creatine Phosphate to ADP per minute im as one equimolar amount of NADH produced by a coupled		
Reconstitution:	Reconstitute protein to 0.1- 1 pH 7.0	.0 mg/ml with 20 mM Tris-acetate, 1 mM DTT, 1 mM EDTA,		
Storage & Stability:	• •	-80°C for up to 1 year. Upon reconstitution, prepare -20°C to -80°C. <b>Avoid repeated freeze-thaw cycles.</b>		
NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.				

