

CK

Native Porcine Creatine Kinase

Catalog No.	CSI14897A	Quantity:	25 KU
	CSI14897B		500 KU

Alternate Names: CK, Creatine Phospho-Kinase, CPK

Description: Creatine Kinase(CK), Creatine Phospho-Kinase (CPK) is an enzyme it 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. 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/mg

Gene ID: 397264

Source: Porcine Heart

Formulation: Lyophilized

Specific Activity: Typically >400 U/mg @ 37°C

Unit Definition: One unit will transfer one micromole of phosphate from creatine phosphate to ADP per minute @ 37°C. Measured at 340 nm as one equimolar amount of NADH produced by a coupled reaction.

Storage & Stability: Store at -20°C. Stable for 1 year from delivery. **Avoid repeated freeze-thaw cycles.**

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

