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CKM, CKB
Native Rabbit Creatine Kinase

Catalog No.	CSI14989A CSI14989B	**Quantity:**	1.0 KU 25 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. Skeletal muscle expresses CKMM at 98%, CKMB at 1%. 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: ≥ 0.6 mg protein/mg powder

UniProt ID: P00563 M-type, P00567 B-type

Appearance: Tan powder

Source: Rabbit Muscle

Formulation: Lyophilized from Tris-buffered saline, 1 mM DTT, pH 7.0

Contaminants:
ALP: ≤ 0.01%
SGOT/AST: ≤ 0.01%
ALT/GPT: ≤ 0.01%
PK: ≤ 0.1%

Activity: ≥ 250 Units/mg (Dimension® Clinical Chemistry System)

Biological Activity: One Unit will transfer one mmole 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.

Specific Activity: ≥ 200 Units/mg protein (Dimension® Clinical Chemistry System)

Reconstitution: Tris-buffered saline, 1 mM DTT, 1% BSA

Storage & Stability: Store as supplied at -20°C to -80°C for up to 1 year. Upon reconstitution, store working aliquots at -20°C to -80°C.

Applications: Creatine Kinase products are extensively used in multi-analyte clinical chemistry controls and calibrators.

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