Creative Enzymes
Diagnostic Enzymes

Creatine Kinase, from Rabbit Muscle

Product Information

Cat#	TRA-051
Specification	1KU,5KU,20KU
Description	Creatine kinase (CK) catalyzes the reversible transfer of phosphate between ATP/ADP and the creatine/creatine phosphate system. Four major isoforms exist: two cytoplasmic forms (MM-CK and BB-CK) and two mitochondrial forms (Miu-CK and Mis-CK), forming dimers and octamers, respectively. CK maintains energy balance in high-metabolism tissues such as skeletal muscle, buffering cells against rapid ATP depletion.
Applications	Biochemical research; (Reversible) catalysis converting ADP and phosphocreatine into ATP and creatine; for ATP production; providing energy regeneration for mixtures of sperm, spermatogonial cell, and oocyte extracts; for analysis of Golgi body degradation and reorganization; for determination of CK substrates; also used for recombinase polymerase amplification (RPA).
Synonyms	Creatine kinase from rabbit muscle; Creatine kinase from rabbit muscle; Creatine kinase from rabbit muscle; Creatine kinase M-type; Creatine kinase M chain; Creatine phosphokinase; Creatine phosphokinase M-type; Phosphocreatine phosphokinase; Creatine phosphotransferase; Creatine N-phosphotransferase; ATP:creatine N-phosphotransferase; Adenosine-5-triphosphate
Form	Lyophilized (freeze-dried) powder
Species	Rabbit
Source	Rabbit muscle
Activity	≥ 250 U/mg
Unit Definition	One unit will transfer 1 μmol of phosphate from phosphocreatine to ADP per minute at pH 7.4 at 30°C.
Molecular Weight	81 kDa (Dimer)
Purity	> 95% by SDS-PAGE; no detectable DNase and RNase; Pyruvate kinase < 1 mU/mg (< 0.001%); LDH < 0.1 mU/mg (< 0.001%).

Tel: 1-631-562-8517 1-516-512-3133
Email:info@creative-enzymes.com
Fax:1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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Gene ID	100009056
Accession	P00563
Storage	Store at -20°C: Valid for 2 years. Store at 4°C for 7 days shows no significant decrease in activity. Store at room temperature or 37°C for 3 days reduces activity by approximately 10%.

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