

Creatine Phosphokinase from Rabbit Muscle

Product Information

Cat#	TRA-013
Specification	1KU,5KU,20KU
Description	Creatine phosphokinase is purified from rabbit skeletal muscle and belongs to the phosphotransferase family, catalyzing the reversible transfer of phosphate between creatine and ATP.
Applications	Core component of myocardial infarction diagnostic kits; biomarker detection for muscular diseases; cellular energy metabolism research (CK-creatine phosphate shuttle system); energy monitoring in sports medicine research.
CAS No.	9001-15-4
Form	White or off-white flakes
Activity	150 U/mg
Unit Definition	One unit will transfer 1 μ mol of phosphate from phosphocreatine to ADP per min at pH 7.4 at 30 °C.
Molecular Weight	80-86.2 kDa
Buffer	0.25 M glycyl-glycine, pH 7.4: soluble 5.0 mg/mL, clear, colorless to slightly yellow
Optimum pH	The forward reaction occurs at a pH of 8.8-9.0, while the reverse reaction occurs at a pH of 6.0-7.0.
Endotoxin Level	< 0.1 EU/ μ g
Storage	-20°C
Notes	Use 0.1% albumin in reaction buffer to prevent inactivation during dilution. Enzyme activity degrades rapidly in pure water; dissolve using the recommended buffer.