



**Creative Enzymes**

*Diagnostic Enzymes*

## Creatine Phosphokinase from Rabbit Muscle

### Product Information

<b>Cat#</b>	TRA-013
<b>Specification</b>	1KU,5KU,20KU
<b>Description</b>	Creatine phosphokinase is purified from rabbit skeletal muscle and belongs to the phosphotransferase family, catalyzing the reversible transfer of phosphate between creatine and ATP.
<b>Applications</b>	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.
<b>CAS</b>	9001-15-4
<b>Form</b>	White or off-white flakes
<b>Activity</b>	150 U/mg
<b>Unit Definition</b>	One unit will transfer 1 $\mu$ mol of phosphate from phosphocreatine to ADP per min at pH 7.4 at 30 °C.
<b>Molecular Weight</b>	80-86.2 kDa
<b>Buffer</b>	0.25 M glycyl-glycine, pH 7.4: soluble 5.0 mg/mL, clear, colorless to slightly yellow
<b>Optimum pH</b>	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.
<b>Endotoxin Level</b>	< 0.1 EU/ $\mu$ g
<b>Storage</b>	-20°C
<b>Notes</b>	Use 0.1% albumin in reaction buffer to prevent inactivation during dilution. Enzyme activity degrades rapidly in pure water; dissolve using the recommended buffer.