

## Native Porcine Creatine Kinase MM

Cat. No. NATE-0959

Lot. No. (See product label)

### Introduction

<b>Description</b>	Creatine kinase, muscle also known as CKM is a creatine kinase that in humans is encoded by the CKM gene. In the figure to the right, the crystal structure of the muscle-type M-CK monomer is shown. In vivo, two such monomers arrange symmetrically to form the active MM-CK enzyme. In heart, in addition to the MM-CK homodimer, also the heterodimer MB-CK consisting of one muscle (M-CK) and one brain-type (B-CK) subunit is expressed. The latter may be an important serum marker for myocardial infarction, if released from damaged myocardial cells into the blood where it can be detected by clinical chemistry.
<b>Applications</b>	Diagnostic Controls, Calibrators & Standards; Clinical Chemistry; Testing/Assay Validation; Life Science; Manufacturing
<b>Synonyms</b>	CKM; creatine kinase, muscle; CKMM; creatine kinase M-type; creatine kinase-M; creatine kinase M chain; M-CK; MM-CK

### Product Information

<b>Species</b>	Porcine
<b>Source</b>	Porcine Skeletal Muscle
<b>Form</b>	Liquid; 50% Glycerol, 50 mM TrisCl, 2.5 mM b-mercaptoethanol, 0.05% NaN <sub>3</sub>
<b>Molecular Weight</b>	43 kDa
<b>Purity</b>	> 90% (SDS-PAGE)
<b>Concentration</b>	> 1.0 mg/mL
<b>Optimum pH</b>	Typically 8.0

### Storage and Shipping Information

<b>Storage</b>	Store at -20°C
<b>Stability</b>	2 years