Creative Enzymes®

Native Porcine Creatine Kinase MM

Cat. No. NATE-0959

Lot. No. (See product label)

Introduction

Description	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.
Applications	Diagnostic Controls, Calibrators & Standards; Clinical Chemistry; Testing/Assay Validation; Life Science; Manufacturing
Synonyms	CKM; creatine kinase, muscle; CKMM; creatine kinase M-type; creatine kinase-M; creatine kinase M chain; M-CK; MM-CK

Product Information

Species	Porcine
Source	Porcine Skeletal Muscle
Form	Liquid; 50% Glycerol, 50 mM TrisCl, 2.5 mM b-mercaptoethanol, 0.05% NaN3
Molecular Weight	43 kDa
Purity	> 90% (SDS-PAGE)
Concentration	> 1.0 mg/mL
Optimum pH	Typically 8.0

Storage and Shipping Information

Storage	Store at -20°C
Stability	2 years