

Native Rat Creatine Kinase MM

Cat. No. NATE-0960

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

Rat

Source

Rat Skeletal Muscle

Form

Liquid in 50% Glycerol, 10mM Tris.Cl, 20mM NaCl, 0.05% NaN₃

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