Creative Enzymes®

Native Porcine Creatine Phosphokinase

Cat. No. NATE-1869

Lot. No. (See product label)

Introduction

Description	Creatine phosphokinase (CPK) is widely distributed and is primarily involved with ATP regeneration in conjunction with the contractile and transport systems. The enzyme is dimeric and exists in three isoenzyme forms: MM (muscle), MB (heart) and BB (brain). CPK from rabbit muscle has a molecular weight of 81,000 The hybrid isoenzyme (MB) has the highest concentration in the heart muscle. Therefore, determination of the serum CPK level of this isoenzyme has been used as a sensitive index for the diagnosis of myocardial infarction. Elevated levels of the BB isoenzyme of CPK have been reported in the serum of patients immediately following cardiac surgery. The CPK-BB levels in serum returned to normal by the fourth post-operative day. This may be a more sensitive diagnostic tool than the serum levels of CPK-MB isoenzyme in cardiac patients.
Synonyms	EC 2.7.3.2; ATP:creatine phosphotransferase; CK; CPK; MM-CK; MB-CK; BB-CK; creatine phosphokinase; creatine phosphotransferase; phosphocreatine kinase; adenosine triphosphate-creatine transphosphorylase; Mi-CK; CK-BB; CK-MM; CK-MB; CKMiMi; MiMi-CK; 9001-15-4; Creatine kinase

Product Information

Species	Porcine
Source	Porcine Heart
Form	Freeze-dried powder
EC Number	EC 2.7.3.2
CAS No.	9001-15-4
Purity	0.95
Activity	>300 U/mg protein
Solubility	Distilled water or dilute buffer
Unit Definition	The amount of enzyme that will transfer one micromole of phosphate from phosphocreatine to ADP per minute at pH 6.9 and 25°C.

Storage and Shipping Information

Storage	Store at -20° C