Creative Enzymes®

Creative Kinase BB Fraction Human, Recombinant

Cat. No. NATE-0139

Lot. No. (See product label)

Introduction

Description	Brain-type creatine kinase also known as CK-BB is a creatine kinase that in humans is encoded by the CKB gene. The protein encoded by this gene, CK-BB, consists of a homodimer of two identical brain-type CK-B subunits. BB-CK is a cytoplasmic enzyme involved in cellular energy homeostasis, with certain fractions of the enzyme being bound to cell membranes, ATPases, and a variety of ATP-requiring enzymes in the cell.
Applications	Human creatine kinase BB fraction has been used to investigate the survival benefit of the late percutaneous coronary intervention in patients after acute myocardial infarction. Human creatine kinase BB fraction has also been used in a study to analyze protein oxidations and resultant loss of function.
Synonyms	CKB; creatine kinase, brain; CKBB; creatine kinase B-type; creatine kinase-B; creatine kinase B chain; B-CK; Brain-type creatine kinase; Creatine Kinase BB; CK-BB; BB-CK

Product Information

Species	Human
Source	Pichia pastoris
Form	liquid
Purity	> 90% (SDS-PAGE)
Concentration	> 1.0 mg/mL
Buffer	Solution in 50% glycerol, Tris buffer with 10 mM Bis-Tris-HCl, 0.5mM DTT, 0.5mM EDTA
Pathway	Arginine and proline metabolism, organism-specific biosystem; Arginine and proline metabolism, conserved biosystem; Creatine metabolism, organism-specific biosystem; Creatine pathway, organism-specific biosystem; Creatine pathway, conserved biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem
Function	ATP binding; creatine kinase activity; nucleotide binding
Unit Definition	One unit will transfer 1.0 μmole of phosphate from creatine phosphate to ADP per minute at 37°C (measured at 340 nm as one equimolar amount of NADH produced by coupled reaction).

Storage and Shipping Information

Stability	−70°C