

Native Human Creatine Kinase Total

Cat. No. NATE-0961

Lot. No. (See product label)

Introduction

Description Creatine kinase plays a key role in the energy metabolism of cells with

intermittently high and fluctuating energy requirements. Examples of such cells include cardiac or skeletal muscle cells and neural tissues of brain and retina. The

enzyme catalyzes the reversible transfer of the phosphoryl group from

phosphorylcreatine to ADP, in order to generate ATP. The molecular mass of the protein is found to be approximately 80 kDa. It is made up of 2 subunits, each having a molecular weight of 40 kDa \pm 2000. The lighter subunit is present in

larger amounts.

Applications Diagnostic Controls, Calibrators & Standards; Immunoassays; Clinical Chemistry;

Testing/Assay Validation; Life Science; ELISA; Blotting; Cardiac Markers;

Manufacturing

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

Product Information

Species Human

Source Human Heart/Brain

Form Lyophilized

EC Number EC 2.7.3.2

CAS No. 9001-15-4

Activity > 5 U/mg

Contaminants LDH: < 1.0% AST/GOT: < 1.0%

Buffer Tris buffered saline, 1% BSA, 1 mM DTT and 1 mM EDTA

Unit Definition One unit will catalyze the transphosphorylation of one micromole of phosphate

from creatine phosphate to ADP per minute at 37°C. Measured at 340 nm as one

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equimolar amount of NADH produced by a coupled reaction.

Storage and Shipping Information

Storage Store at -20°C

Stability 3 years

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