CREATIVE BIOMART®
Assay Kit

Creatine Kinase (CK) Activity Colorimetric Assay Kit

Product Information

Cat.No.

Kit-0230

Product Overview

The kit can detect creatine kinase activity less than 1 mU. (100 assays) Simple procedure; takes ~ 30-40 minutes;Sensitive and high-throughput adaptable;Kit contains all necessary reagents for measuring creatine kinase activity.

Size

100 assays

Description

Creatine Kinase (CK) also known as creatine phosphokinase (CPK) and ATP: creatine N-phosphotransferase is a common cellular enzyme (EC 2.7.3.2). It catalyzes the reversible conversion of creatine and ATP into ADP and phosphocreatine. CK is widely expressed in various tissues and cell types, with highest activity in striated muscles, heart tissue and brain. CK consists of two subunits: M (muscle) and B (brain), and has three isoenzymes: CK-MM (skeleton muscle), CK-MB (cardiac muscle), and CK-BB (brain). Increased CK level is associated with many diseases such as myocardial infarction, muscular dystrophy, pulmonary infarction and brain tumors. Accurate measurement of CK is crucial for early diagnosis, prediction and therapeutic strategy. In Creatine Kinase Activity Colorimetric Assay kit, creatine kinase converts creatine into phosphocreatine and ADP. The generated phoshocreatine and ADP reacts with CK Enzyme Mix to form an intermediate, which reduces a colorless Probe to a colored product with strong absorbance at 450 nm. The CK Activity Assay is high-throughput adaptable, simple and sensitive. This assay kit can detect Creatine Kinase activity less than 1 mU.

Applications

The kit can detect creatine kinase activity less than 1 mU.

Usage

This product is furnished for LABORATORY RESEARCH USE ONLY. Not for diagnostic or therapeutic

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use.

Kit Components

CK Assay BufferCK SubstrateATP (Lyophilized)CK Enzyme Mix (Lyophilized)CK Developer (Lyophilized)NADH Standard (Lyophilized)Positive Control (Lyophilized)

Detection method Colorimetric

Compatible Sample Types

Animal TissueCell Culture SupernatantsPlasmaSerum

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