CREATIVE BIOMART®
Assay Kit

Citrate Synthase Activity Colorimetric Assay Kit

Product Information

Cat

Kit-2281

Cat.No. Kit-2281

Product Overview

Citrate Synthase (EC 2.3.3.1) is a key enzyme that is present in all living organisms. It catalyzes the conversion of acetyl-CoA and oxaloacetate into citrate and serves as a marker for intact mitochondria. A recent study showed that increased activity of mitochondrial Citrate Synthase is directly associated with metabolic and endocrine abnormalities such as obesity. In Citrate Synthase Activity Assay Kit, Citrate Synthase reacts with substrate mix to form an intermediate, which subsequently reacts with developer to generate the colored product. The rate of color development is proportional to the enzyme activity. The assay is simple, rapid and can detect Citrate Synthase activity less than 1 mU in a variety of samples.

Applications

Measurement of citrate synthase activity in various tissues/cellsAnalysis of intact mitochondria.

Storage

-20°C

Shipping

Gel Pack

Size

100 assays

Kit Components

CS Assay Buffer; CS Substrate Mix (Lyophilized); CS Developer (Lyophilized); GSH Standard (reduced) (Lyophilized); CS Positive Control (Lyophilized)

Detection method Absorbance (412 nm)

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Features & Benefits

Simple, rapid & convenient;
The assay can detect Citrate Synthase Activity less than 1 mU in a variety of samples

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