CREATIVE BIOMART®
Assay Kit

Coenzyme A Assay Kit

Product Information

Cat.No. Kit-0233

Product Overview

Coenzyme A Assay Kit is used for measuring the CoA level.

Description

Coenzyme A (CoA) is composed of units derived from cysteine, pantothenic acid, and ATP. It plays important roles in the synthesis and oxidation of fatty acids, pyruvate oxidation in the citric acid cycle and many other biological processes. One of the main functions of CoA is the carrying and transfer of acyl groups. One of the most important acyl groups transferred is the acetate group, in which case the molecule is called acetyl-CoA. The acetyl group eventually finds itself incorporated into a variety of molecules such as cholesterol, acetylcholine, melatonin, heme and the TCA cycle intermediates. We have developed an easy, convenient assay to measure the CoA level in variety biological samples. In the assay, free CoA is specifically utilized to generate products which react with OxiRed Probe to generate color (λ = 570 nm) and fluorescence (Ex=535/Em=587 nm). The assay can detect 0.1 to 10 nmol of CoA (2.5-250 μM concentration range) in a variety of samples.

Target Species

Mammals

Usage

For research use only (RUO)

Storage

Store kit at -20°C, protect from light. Warm CoA Assay Buffer to room temperature before use. Briefly centrifuge all small vials prior to opening.

Kit Components

CoA Assay Buffer 25 mLOxiRed Probe (in DMSO) 0.2 mLConversion Enzyme Mix: lyophilized. 1 vialCoA Substrate 1 mLAcyl CoA Developer: lyophilized. 1 vialCoA Standard (10 μmol): lyophilized. 1 vial

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Detection method Colorimetric, Fluorometric

Compatible Sample Types

Biological Fluid, Cell Lysate, Culture Medium, Plasma, Serum, Tissue Lysate, Urine

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