



## 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 ( $\lambda = 570 \text{ nm}$ ) and fluorescence ( $Ex=535/Em=587 \text{ nm}$ ). The assay can detect 0.1 to 10 nmol of CoA (2.5-250  $\mu\text{M}$  concentration range) in a variety of samples.

#### Target Species

Mammals

#### Usage

For research use only (RUO)

#### Storage

Store kit at  $-20^{\circ}\text{C}$ , 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 mL  
OxiRed Probe (in DMSO) 0.2 mL  
Conversion Enzyme Mix: lyophilized. 1 vial  
CoA Substrate 1 mL  
Acyl CoA Developer: lyophilized. 1 vial  
CoA Standard (10  $\mu\text{mol}$ ):



CREATIVE **BIOMART**<sup>®</sup>  
Assay Kit

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lyophilized. 1 vial

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**Detection method** Colorimetric, Fluorometric

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**Compatible Sample Types**

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

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