CREATIVE BIOMART®
Assay Kit

Coenzyme A Assay Kit II

Product Information

Cat.No. Kit-0234

Product Overview

Coenzyme A Assay Kit is a quantitative colorimetric/fluorimetric coenzyme A determination.

Description

Coenzyme A (CoA) is involved in many important biological activities including the synthesis and oxidation of fatty acids, pyruvate oxidation in the citric acid cycle and many others. One of CoA"s most crucial roles is the carrying and transferring of acyl groups. Coenzyme A Assay Kit provides a simple, two-step and high-throughput assay for measuring CoA. In this assay, the first step enzymatically converts CoA to acyl-CoA and the second step oxidizes the acyl-CoA producing an enoyl-CoA and H2O2. The resulting H2O2 reacts with a specific dye to form a pink colored product. The optical density at 570 nm or fluorescence intensity (530/585 nm) is directly proportional to the CoA concentration in the sample.

Applications

Assays: CoA in a variety of biological samples.

Usage

For research use only (RUO)

Storage

Store the kit at at -20°C.

Kit Components

Assay Buffer: 20 mLDye Reagent: 120 µLEnzyme A: 120 µLEnzyme B: 120 µLSubstrate: 600 µLStandard: 50 µLATP: 120 µLStorage conditions. The kit is shipped on ice. Store all components at -20°C. Shelf life of three months after receipt.Precautions: reagents are for research use only. Normal precautions for laboratory reagents should be exercised while using the reagents. Please refer to Material Safety Data Sheet for detailed information.

Detection method Colorimetric, Fluorometric

Tel: 1-631-559-9269 1-516-512-3133
Email:info@creative-biomart.org
Fax:1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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Compatible Sample Types

Plasma, Serum

Features & Benefits

Sensitive. Use 10 µL samples. Linear detection range: colorimetric assay 5 - 1000 µM, fluorimetric assay 3 - 100 µM CoA.Convenient. Room temperature "mix-and-read" procedure can be readily automated for high-throughput assay of thousands of samples per day.

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