CREATIVE BIOMART®
Assay Kit

Acetyl CoA Assay Kit

Product Information

Cat.No. Kit-0235

Product Overview

PicoProbe Acetyl CoA Assay Kit is a highly sensitive assay for determining Acetyl CoA level in a variety of biological samples. In the assay, free CoA is quenched then Acetyl CoA is converted to CoA. The CoA is reacted to form NADH which interacts with PicoProbe to generate fluorescence (Ex=535/Em=587 nm). The assay can detect 10 to 1000 pmol of Acetyl CoA (with detection limit ~0.4 µM) in a variety of samples.

Size

100 tests

Description

Acetyl CoA is a central molecule of metabolism. It carries acetate, used in the build-up and breakdown of larger molecules. Acetyl CoA is key in synthetic pathways leading to sesquiterpenes, precursors to cholesterol and other sterols, flavenoids and other polyketides, polyenes and long-chain fatty acids. It is the source of the acetyl group used in histone acetylation. The acetyl group is also incorporated into a variety of other molecules such as acetylcholine, melatonin, heme and TCA cycle intermediates.

Applications

Functional Studies more details

Storage

Store at -20°C.

Kit Components

Components: Identifier; Acetyl CoA Assay Buffer: WM; Acetyl CoA Enzyme Mix: Purple; Acetyl CoA Standard (1 µmol) (Lyophilised): Yellow; Acetyl CoA Substrate Mix (Lyophilised): Red; CoA Quencher: Orange; Conversion Enzyme: Green; PicoProbe (in DMSO): Blue; Quench Remover (Lyophilised): Clear

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Compatible Sample Types
Urine, Serum, Plasma, Other biological fluids, Tissue Extracts, Cell Lysate, Cell culture media
Sensitivity
>0.01 nmol/well

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