CREATIVE BIOMART®
Assay Kit

Oxaloacetate Assay Kit II

Product Information

Cat.No. Kit-0639

Product Overview

Oxaloacetate Assay Kit is used for quantifying OAA.

Description

Oxaloacetate (OAA, HOOC-CO-CH2-COOH) is a TCA cycle intermediate. It precedes citrate which is formed by the transfer of an acetyl group to OAA. OAA is formed by the deamidation of aspartate or condensation of CO2 with pyruvate or PEP. Since mammals do not possess the enzymatic machinery to form TCA cycle intermediates from acetyl CoA, OAA is one of the anaplerotic entry points via pyruvate and pyruvate carboxykinase. The Oxaloacetate Assay Kit provides a simple, sensitive and rapid means of quantifying OAA in a variety of samples. In the assay, OAA is converted to pyruvate which is utilized to convert a nearly colorless probe to an intensely colored (λmax= 570nm) and fluorescent (Ex/Em = 535/587nm) product. The Oxaloacetate Assay Kit can detect 0.1-10nmol (2-200 µM) of OAA.

Target Species

Mammals

Usage

For research use only (RUO)

Storage

Store kit at -20°C, protect from light. Warm OAA Assay Buffer to room temperature before use. Briefly centrifuge all small vials prior to opening. Read the entire protocol before the assay.

Kit Components

Components 100 Assays Cap CodeOAA Assay Buffer 25 ml WMOAA Probe (in DMSO) 0.2 ml RedOAA Enzyme Mix lyophilized PurpleDeveloper lyophilized GreenOAA Standard (10 µmol) lyophilized Yellow

Detection method Colorimetric, Fluorometric

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Compatible Sample Types

Biological Fluid, Cell Culture Supernatant, Plasma, Serum, Tissue Culture Supernatant, Urine

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