CREATIVE BIOMART®
Assay Kit

Isocitrate Assay Kit

Product Information

Cat.No. Kit-0482

Product Overview

Isocitrate Assay Kit is used for quantifying isocitrate.

Description

Isocitric acid (HOOC-CHOH-CH (-COOH)-CH2-COOH) is an intermediate of the Krebs TCA cycle, positioned between citrate and a-keto-glutarate. It is the branch point from which the glyoxylate shunt operates in plants and lower organisms. Isocitrate is found in substantial concentrations in many fruits and vegetables as well as in foods produced from these raw materials. In the TCA cycle, isocitrate is oxidized by isocitrate dehydrogenase (IDH) to a-ketoglutarate with the generation of NAD(P)H. Loss of NAD-IDH has been implicated as a potential causative factor in retinitis pigmentosa. The Isocitrate Assay Kit provides a simple, sensitive and rapid means of quantifying isocitrate in a variety of samples. In the assay, isocitrate is oxidized with the generation of NADPH which converts a nearly colorless probe to an intensely colored species with a λmax of 450nm. The Isocitrate Assay Kit can detect 1 to 20 nmoles (~0.2-5 µg) of isocitrate.

Target Species

Mammals

Usage

For research use only (RUO)

Storage

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

Kit Components

1. Isocitrate Assay Buffer: 25 ml.2. Isocitrate Enzyme Mix: 200 µl.3. Substrate Mix: lyophilized.4. Isocitrate Standard (10 µmol): lyophilized.

Detection method Colorimetric

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

CREATIVE BIOMART®
Assay Kit

Isocitrate Assay Kit

Compatible Sample Types

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

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