CREATIVE BIOMART®
Assay Kit

Isocitrate Fluorometric Assay Kit

Product Information

Cat.No. Kit-0484

Product Overview

Isocitrate Assay Kit (Fluorometric) is used for quantitative determination of Isocitrate (Isocitric Acid) using fluorometric methods.

Description

ISOCITRATE (ISOCITRIC ACID) is a substrate in the citric acid (TCA) cycle. Isocitrate is formed by the isomerization of citrate catalyzed by the enzyme aconitase. Isocitrate is oxidized by isocitrate dehydrogenase producing a-ketoglutarate and generating NADPH. Isocitrate is commonly found in many fruits and vegetables and their processed products. Industrially, isocitrate is used as a marker to identify the quality and purity of fruit juices.This isocitrate assay measures the NADPH generated from the oxidation of isocitrate. The NADPH reduces a probe into a highly fluorescent product. The fluorescence intensity of this product, measured at λ ex/em = 530/585 nm, is proportional to the isocitrate concentration in the sample.

Applications

Isocitrate determination in food, beverage, biological samples (e.g. cell lysate, tissue homogenate, serum, etc.)

Usage

For research use only (RUO)

Storage

Store all components at -20°C upon receiving.

Kit Components

Assay Buffer 10 mLNADP 500 µLStandard 1 mLEnzyme A 120 µLEnzyme B 120 µLProbe 750 µL

Detection method Fluorometric

Compatible Sample Types

Beverage, Food, Cell lysate, Serum, Tissue homogenate

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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Features & Benefits

Fast and sensitive. Linear detection range (20 µL sample): 0.6 to 500 µM for 10 min reaction.Convenient and high-throughput. Homogeneous "mix-incubate-measure" type assay. Can be readily automated on HTS liquid handling systems for processing thousands of samples per day.

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