CREATIVE BIOMART®
Assay Kit

Arginase Assay Kit

Product Information

Cat.No. Kit-0103

Product Overview

Arginase Assay Kit is a quantitative colorimetric arginase determination.

Description

ARGINASE (L-arginine ureohydrolase EC 3.5.3.1) is present in mammals and plants. In humans, arginase is expressed predominantly in the liver, and to lesser degrees in breast, kidney, testes, salivary glands, epidermis and erythrocytes. Arginase catalyzes the conversion of arginine to ornithine and urea, completing the last step in the urea cycle. Arginase activity is a key diagnostic indicator. Increased levels of arginase activity in blood have been associated with liver damage. Hyperargininemia due to arginase deficiency is an inherited autosomal recessive disease.

Applications

Direct Assays: arginase activity in enzyme preparations, serum, plasma, tissue culture etc;Drug Discovery/Pharmacology: effects of drugs on arginase activity.

Usage

For research use only (RUO)

Storage

Store the Arginine Buffer and Urea Standard at -20°C, and other components at 2-8°C.Shelf life: 12 months after receipt.

Kit Components

Arginine Buffer (pH 9.5) 1.5 mLMn Solution 300 μLReagent A 12 mLReagent B 12 mLUrea standard (50 mg/dL) 0.5 mL

Detection method Colorimetric

Features & Benefits

Sensitive and accurate: Detection limit: 0.3 U/L for 2 hr arginase reaction in 96-well assay format.Simple and high-throughput: The procedure involves incubation of the provided substrate

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with the sample in a microplate followed by the addition of the coloring reagent. Can be readily automated as a high-throughput assay for thousands of samples per day.

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