CREATIVE BIOMART®
Assay Kit

Arginase Activity Colorimetric Assay Kit

Product Information

Cat

Kit-2259

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Product Overview

Arginase (EC 3.5.3.1) is the final enzyme of the Urea Cycle. It converts L-arginine into urea and L-ornithine and plays an important role in removing ammonium ion from the body. Arginase has two isoforms: Arginase I and Arginase II. Arginase I is mainly present in the liver and plays an important part in the urea cycle whereas Arginase II is present in kidney and other tissues and regulates Arginine/Ornithine concentration. Arginase deficiency can lead to severe symptoms including neurological impairment, dementia and hyperammonemia. Analysis of Arginase activity is fundamental to the study of the urea metabolic pathway. Arginase Activity Assay kit is simple, sensitive and rapid. In this assay, Arginase reacts with arginine & undergoes a series of reactions to form an intermediate that reacts stoichiometrically with OxiRed; Probe to generate the colored product (OD 570 nm). The kit can detect Arginase activity less than 0.2 U/L in 96-well assay format.

Applications

Measurement of Arginase Activity in various tissues/cellsAnalysis of urea cycle disorders.

Storage

-20°C

Shipping

Gel Pack

Size

100 assays

Kit Components

Arginase Assay Buffer; OxiRed; Probe (in DMSO); Arginase Substrate (Lyophilized); Arginase Enzyme Mix (Lyophilized); Arginase Developer (Lyophilized); Arginase Converter Enzyme (Lyophilized); H2O2

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Arginase Activity Colorimetric Assay Kit

Standard (0.88 M); Arginase Positive Control (Lyophilized)

Detection method Absorbance (570 nm)

Features & Benefits

Simple, rapid & convenient;
The assay can detect Arginase Activity less than 0.2U/L in 96-well assay format.

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