CREATIVE BIOMART®
Assay Kit

Nitric Oxide Synthase Detection Kit

Product Information

Cat.No. Kit-0630

Product Overview

Diaminofluorescein -2 Diacetate (DAF-2DA) is a non-fluorescent cell permeable reagent that can measure free Nitric Oxide (NO) and nitric oxide synthase (NOS) activity in living cells under physiological conditions. Once inside the cell the diacetate groups on the DAF-2DA reagent are hydrolyze by cytosolic esterases thus releasing DAF-2 and sequestering the reagent inside the cell. Production of nitric oxide converts the nonfluorescent dye, DAF-2, to its fluorescent triaole derivative, DAF-2T. DAF-2T can be observed by: excitation 488nm and measuring emission at 515nm.

Applications

Flow Cytometer, Fluorescence plate reader, Fluorescence Microscope

Usage

1. Prepare 1X-working solution of DAF-2DA immediately prior to use. Do not store any 1X solutions for later usage.2. Keep DAF-2DA out of direct light.3. After opening DAF-2DA reagent, aliquote and store at 4°C. 4. Keep the DAF-2DA reagent and stained samples protected from light. DAF-2DA is very light sensitive. When handling DAF-2DA or stained samples, it is advisable to work in a low light environment. 5. MW: 446.46. Appearance: liquid (DMSO)7. Prior to using DAF-2DA, spin down vial as contents may stick to the vial cap.

Storage

1. Long Term Storage: Store contents as labeled.2. Upon Arrival: 2-8o C.

Kit Components

1. DAF-2DA: 1 Vial, 2-8°C;2. DAF-2DA: 2 Vials, 2-8°C,

Features & Benefits

1. Cell permeable.2. No wash homogenous assay.3. Adaptable to High throughput assay platforms. 4. Real time detection of NO activity. 5. Applications-Flow Cytometry, Fluorescence Plate Reader, Fluorescence Microscopy

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