CREATIVE BIOMART®
Assay Kit

Nitric Oxide Fluorimetric Detection Kit (Orange)

Product Information

Cat.No. Kit-2045

Product Overview

Nitrixyte probes are developed and used in our kit as an excellent replacement for DAF-2 for the detection and imaging of free NO in cells. Compared to the commonly used DAF-2 probe, Nitrixyte probes have better photo stability and enhanced cell permeability. This particular kit uses Nitrixyte Orange that can react with NO to generate a bright orange fluorescent product that has spectral properties similar to Cy3 and TRITC. Nitrixyte Orange can be readily loaded into live cells, and its fluorescence signal can be conveniently monitored using the filter set of Cy3 or TRITC. This kit is optimized for flow cytometry applications.

Size

100 assays

Description

Nitric oxide (NO) is an important biological regulator involved in numbers of physiological and pathological processes. Altered NO production is implicated in various immunological, cardiovascular, neurodegenerative and inflammatory diseases. As a free radical, NO is rapidly oxidized and there is relatively low concentrations of NO existing in vivo. It has been challenging to detect and understand the role of NO in biological systems. Fluorimetric Intracellular Nitric Oxide Assay Kit provides a sensitive tool to monitor intracellular NO level in live cells.

Applications

The kit is optimized for flow cytometry applications.

Storage

Keep Component A&B at -20°C and Component C at 4°C.

Kit Components

Component A: Nitrixyte Orange (500x) 100 µlComponent B: NONOate Positive Control 1 vial (lyophilized powder)Component C: Assay Buffer 1 bottle (10 ml)

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Detection method Flow cytometer

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