

Nitric Oxide Activity Fluorimetric Assay Kit (Orange)

Cat. No. Kit-2044 **Lot. No.** (See product label)

SPECIFICATION

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 fluorescence imaging and microplate reader applications.

Size

2 plates or 200 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 fluorescence imaging and microplate reader applications.

Storage

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

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Kit Components

Component A: Nitrixyte Orange 50 μ l
Component B: Assay Buffer I 1 bottle (20 ml)
Component C: Assay Buffer II 1 bottle (20 ml)

Detection method

Microplate reader

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