

Intracellular Total ROS Activity Assay Kit (Green Fluorescence)

Cat. No. Kit-0770 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Intracellular Total ROS Activity Assay Kit (Green Fluorescence) is used for the measurement of intracellular total ROS activity.

Description

Reactive oxygen species (ROS) are natural byproducts of the normal metabolism of oxygen and play important roles in cell signaling. However, during oxidative stress-related states, ROS levels can increase dramatically. The accumulation of ROS results in significant damage to cell structures. The role of oxidative stress in cardiovascular disease, diabetes, osteoporosis, stroke, inflammatory diseases, a number of neurodegenerative diseases and cancer has been well established. The ROS measurement will help to determine how oxidative stress modulates varied intracellular pathways. Intracellular Total ROS Activity Assay Kit (Green Fluorescence) uses our unique ROS sensor to quantify ROS in live cells. ROS Green is cell-permeable. It generates the green fluorescence when it reacts with ROS. The kit is an optimized "mix and read" assay format that is compatible with HTS liquid handling instruments.

Applications

Detection of ROS in Jurkat cells.

Usage

For research use only (RUO)

Storage

Keep in freezer Avoid exposure to light Avoid repeated freeze-thaw cycles

Kit Components

Component A: ROS Green 1 vial
Component B: Assay Buffer 20 mL
Component C:

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



	DMSO 200 μ
Detection method	Fluorometric
Compatible Sample Types	Live Cells
Features & Benefits	Broad Application: Can be used for quantifying ROS in live cells. Continuous: Easily adapted to automation without a separation step. Convenient: Formulated to have minimal hands-on time. Non-Radioactive: No special requirements for waste treatment.

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