CREATIVE BIOMART®
Assay Kit

# Intracellular Total ROS Activity Assay Kit (Red)

## Product Information

**Cat.No.** Kit-0772

**Product Overview**

Intracellular (Total) ROS Activity Assay Kit uses our unique ROS sensor to quantify ROS in live cells.

**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 (Red) uses our unique ROS sensor to quantify ROS in live cells. ROS Red is cell- permeable. It generates the red 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 Component A in freezer (-20°C) and avoid exposure to light; Component B&C at 4°C. All components are stable for 6 months after receipt if stored properly.

**Kit Components**

Component A: Red ROS 1 vialComponent B: Assay Buffer 1 bottle (20 ml)Component C : DMSO 1 vial (200 μl)

**Detection method** Fluorometric

**Compatible Sample Types**

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Cell Culture

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