CREATIVE BIOMART®
Assay Kit

Mitochondrion Staining Kit (NIR Fluorescence)

Product Information

Cat.No. Kit-0563

Product Overview

Mitochondrion Staining Kit (NIR Fluorescence) is a set of fluorescence imaging tool for labeling sub-cellular organelles for the study of cellular events in a spatial and temporal context.

Description

Mitochondria are membrane-enclosed organelles found in most eukaryotic cells. Mitochondria are sometimes described as "cellular power plants" because they generate most of the cellular supply of ATP. In addition to supplying cellular energy, mitochondria are involved in a range of other processes, such as signaling, cellular differentiation, cell death, as well as the control of the cell cycle and cell growth. Mitochondria have been implicated in several human diseases, including mitochondrial disorders and cardiac dysfunction, and may play a role in the aging process. Although most of a cellular DNA is contained in the cell nucleus, the mitochondrion has its own independent genome.

Usage

For research use only (RUO)

Storage

Keep in freezerProtect from moisture and lightAvoid repeated freeze-thaw cycles

Kit Components

Component A: Mito NIR (500X DMSO stock solution) 100 µlComponent B: Live Cell Staining Buffer 50 ml

Compatible Sample Types

Adherent cells, Suspension cells

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