CREATIVE BIOMART®
Assay Kit

Cell Viability NIR Fluorescence Assay Kit

Product Information

Cat.No. Kit-0202

Product Overview

Cell Viability Assay Kit (NIR Fluorescence) is a fluorescent assay used to label cells for the research of cellular functions.

Description

The far red fluorescent dye used in the kit is a hydrophobic compound that can easily permeate intact live cells and gets enhanced fluorescence upon entering into live cells. The hydrolysis of the weakly fluorescent substrate by intracellular esterases generates a strongly red fluorescent hydrophilic product that is well-retained in the cell cytoplasm. The red fluorophore generated by the weakly fluorescent substrate has the spectral properties similar to those of Cy5 or iFluor™ 647 at Ex/Em = ~640/660 nm (Cy5 or iFluor™ 647 are the trademarks of GE Healthcare and Invitrogen respectively). When well excited with the He-Ne Laser at 633 nm, the red fluorophore emits intense red fluorescence at ~660 nm.

Applications

The Cell Viability Assay Kit (NIR Fluorescence) is a set of tool for monitoring cell viability and cellular functions.

Usage

For research use only (RUO)

Storage

Keep in freezer and protect from light.

Kit Components

Component A: CytoCalcein NIR (lyophilized) 2 vialsComponent B: DMSO 100 μLComponent C: Assay Buffer 10 mL x 2

Detection method Fluorometric

Compatible Sample Types

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Cells

Features & Benefits

Robust: Higher maximum signal with lower variation across the plate.Convenient: Formulated to have minimal hands-on time.Rapid Dye Loading: Dye loading at RT for 30 min to 1 hr.Versatile applications: Compatible with many cell lines and targets.

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