CREATIVE BIOMART®
Assay Kit

Cell Viability Green/Red Dual Fluorescence Assay Kit

Product Information

Cat.No. Kit-0201

Product Overview

Cell Viability Assay Kit (Green/Red Dual Fluorescence) is a dual fluorescent assay used to monitor cell viability and cellular functions.

Description

This particular kit uses two non-fluorescent indicators: CytoCalcein Green for viable cells and a cell-impermeable DNA-binding dye for the cells with compromised membranes. The non-fluorescent CytoCalcein Green can easily permeate intact live cells and is hydrolyzed by intracellular esterase to generate the strongly fluorescent hydrophilic CytoCalcein Green which is well-retained in the cell cytoplasm. The esterase activity is proportional to the number of viable cells. The DNA-binding dye is quite polar and impermeable for viable cells that have intact membranes. It becomes fluorescent only upon binding to the DNA of dead cells. Cells grown in black-wall plates can be stained and quantified in less than two hours.

Applications

The Cell Viability Assay Kit (Green/Red Dual Fluorescence) are a set of tools 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 Green (lyophilized) 2 vialsComponent B: Propidium Iodide (10 mM) 40 μLComponent C: DMSO 100 μLComponent D: Assay Buffer 20 mLCaution: Propidium Iodide is suspected to be highly carcinogenic, so careful handling is required.

Detection method Fluorometric

Tel: 1-631-559-9269 1-516-512-3133
Email:info@creative-biomart.org
Fax:1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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Compatible Sample Types

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 minutes to 1 hour.Versatile Applications: Compatible with many cell lines and targets.

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