CREATIVE BIOMART®
Assay Kit

Cell Viability Assay Kit (blue)

Product Information

Cat.No. Kit-0131

Product Overview

Blue Cell Viability Assay Kit is a non-radioactive fluorescent assay for cell proliferation and cytotoxicity.

Description

This homogeneous assay involves simply adding a single reagent, the CellQuanti-Blue reagent, to the cell culture and measuring the fluorescence intensity (excitation wavelength = 530 - 570 nm, emission wavelength = 590 - 620 nm) after an incubation step. The CellQuanti-Blue reagent, like other resazurin-based assays such as the Alamar Blue reagent, utilizes the redox dye resazurin which is not fluorescent, but upon reduction by metabolically active cells is converted into a highly fluorescent product (resorufin). Living cells can readily reduce this non-toxic reagent and the resulting increase in fluorescence intensity can be conveniently monitored using a fluorescence spectrophotometer or plate reader. Nonviable cells have no metabolic capacity and, thus, will not reduce the dye. Therefore, the fluorescence intensity observed in this assay is a true measure of the viable cells. The CellQuanti-Blue reagent has been optimized for maximum sensitivity, reproducibility and long shelf-life. The homogeneous cell-based assay can be performed in multi-well plates. The reagent is compatible with all culture media and with all liquid handling systems for high-throughput screening applications in 96-well and 384-well plates. Applications include cell proliferation, cytotoxicity and apoptosis.

Applications

Cell Proliferation: effects of cytokines, growth factor, nutrients.Cytotoxicity and Apoptosis: evaluation of toxic compounds, anti-cancer antibodies, toxins, environmental pollutants etc.Drug Discovery: high-throughput screening for anticancer drugs.

Usage

For research use only (RUO)

Storage

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Fax:1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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The CellQuanti-Blue reagent is light sensitive and should be stored in the provided amber bottle at 4°C. Shelf life: 12 months.

Kit Components

Reagent 50 mL

Detection method Fluorometric

Features & Benefits

Safe: Non-radioactive assay (cf. 3H-thymidine incorporation assay).Sensitive and accurate: As low as 100 cells can be accurately quantified.Time efficient: High-throughput assay in 96-well and 384-well plates allows simultaneous processing ten of thousands of samples per day.Homogeneous and convenient: A single reagent and "mix-incubate-measure" type assay. No wash and reagent transfer steps are involved.Robust and amenable to HTS: Z" factors of 0.6 to 0.9 are routinely observed in 96-well and 384-well plates. Can be readily automated on HTS liquid handling systems.

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