CREATIVE BIOMART®
Assay Kit

Cell Cycle Analysis Kit

Product Information

Cat

Kit-2393

Cat.No. Kit-2393

Product Overview

Cell cycle is a ubiquitous, complex sequence of events leading to growth and proliferation of cells. Cell Cycle progression is tightly regulated due to its involvement in development, DNA damage and repair, etc. Anomalies in cell cycle progression can lead to tissue hyperplasia and diseases such as cancer. Cell cycle can be subdivided into interphase (G0/G1, S and G2) and mitotic (M) phase (prophase, metaphase, anaphase and telophase). Cell Cycle Analysis Kit provides a quick and easy method to detect the number of cells in a cell population, which are at a specific stage of the cell cycle. Our kit utilizes a nuclear dye, the binding of which to nucleic acids in the cell results in fluorescence signal, which is proportional to cellular DNA content. The percentages of cells in different phases of the cell cycle (G0/G1, S, and G2/M) can be quantified by flow cytometry. Our method is non-radioactive, rapid and accurate and can be used for high throughput cell cycle analysis with contemporary flow cytometer instruments.

Applications

Analysis of cell cycle regulation in response to growth factors, cytokines, mitogens, and nutrients, etc.
Monitoring of cell cycle progression
Study effects of drugs which affect cell growth and division

Storage

-20°C

Shipping

Gel Pack

Size

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

CREATIVE BIOMART®
Assay Kit

Cell Cycle Analysis Kit

100 assays

Kit Components

10X Cell Cycle Assay Buffer; Enzyme A Solution; Nuclear Dye

Target Species

Mammalian

Detection method Flow cytometry (Ex 488 nm)

Features & Benefits

Highly sensitive flow cytometry-based method to detect and monitor cells at various stages of the cell cycle;
Simple & High throughput-adaptable;
Easy tool for screening compounds that affect cell growth and division

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