CREATIVE BIOMART®
Assay Kit

Cell Proliferation Assay Kit II

Product Information

Cat.No. Kit-0199

Product Overview

Cell Proliferation Assay Kit II is used for the measurement of cell proliferation in response to growth factors, cytokines, mitogens, and nutrients, etc.

Description

The Cell Proliferation Assay Kit II provides by far the easiest and most sensitive means for quantifying cell proliferation and viability. The assay is based on the cleavage of the tetrazolium salt to formazan by cellular mitochondrial dehydrogenase. The amount of the dye generated by activity of dehydrogenase is directly proportional to the number of living cells. The formazan dye produced by viable cells can be quantified by multi-well spectrophotometer (microtiter plate reader) by measuring the absorbance of the dye solution at 440 nm. The assay can be used for measurement of cell proliferation in response to growth factors, cytokines, mitogens, and nutrients, etc. It can also be used for the analysis of cytotoxic compounds like anticancer drugs and many other toxic agents and pharmaceutical compounds. The new method is so simple, just add-and-read, requiring no washing, no harvesting, and no solubilization steps. It is faster, stable, and more sensitive than MTT, XTT, MTS based assays. The assay correlates well with the [3H]-thymidine incorporation assay.

Target Species

Mammals

Usage

For research use only (RUO)

Storage

Dissolve the lyophilized WST reagent into 5 ml the Electro Coupling Solution (ECS), aliquot the solution (1 ml is sufficient for one 96-well plate assays) and store at -20°C. The WST solution is stable for 1 year at -20°C and up to 6 months at 4°C. Protect from light. Avoid repeated freeze-thaw. Repeated freeze-thaw may increase background.

Kit Components

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WST Reagent (lyophilized) 1 vialElectro Coupling Solution 5 mlStop Solution 5 ml

Detection method Colorimetric

Compatible Sample Types

Cell

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