CREATIVE BIOMART®
Assay Kit

Kinase Assay Kit

Product Information

Cat.No. Kit-0493

Product Overview

Kinase Assay Kit is a generic fluorimetric high-throughput kinase assay.

Description

KINASES, also known as phosphotransferases, constitute a large family of enzymes that transfer phosphate groups from the high-energy donor molecule ATP, to their specific substrates. Kinases are known to regulate the majority of cellular processes. The largest group of this family is the protein kinases. So far, 518 different kinases have been identified in humans and up to 30% of human proteins are modified by these kinases. The enormous diversity and their key role in cellular signaling make them ideal targets for drug developments.

Applications

• Kinase activity assays and HTS for kinase inhibitors.• ADP determination in cells and other biological samples.

Usage

For research use only (RUO)

Storage

Store all reagents at -20°C. Shelf life of at least 6 months.

Kit Components

Reagent A 10 mLReagent B 10 mLAssay Buffer 25 mLStandard (3 mM ADP) 100 µL

Detection method Fluorometric

Compatible Sample Types

Biological Sample, Cell

Features & Benefits

• Safe: Non-radioactive assay.• Sensitive and accurate: As low as 0.01 U/L kinase can be

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

Kinase Assay Kit

quantified.• Homogeneous and convenient: "Mix-incubate-measure" type assay. The whole assay involves adding a single working reagent and incubation for 10 min at room temperature.• Robust and amenable to HTS: Assay can tolerate up to 300 μM ATP and 10% dimethylsulfoxide (DMSO).Z" factors of >0.6 are routinely observed in 96/384-well plates. Can be readily automated on HTS liquid handling systems for tens of thousands of assays per day.

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