

Kinase Assay Kit

Cat. No. Kit-0493 **Lot. No.** (See product label)

SPECIFICATION

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 mL Reagent B 10 mL Assay Buffer 25 mL Standard (3 mM ADP) 100 µ
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

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can be 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 μ M 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.

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