



ADP Fluorimetric Assay Kit

Product Information

Cat

Kit-2430

Cat.No.

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Product Overview

Adenosine diphosphate (ADP) is the product of ATP dephosphorylation by ATPases. ADP can be converted back to ATP by ATP synthases. ADP levels regulate several enzymes involved in intermediary metabolism. Conventionally, ADP levels are measured by luciferase/luciferin mediated assays after ADP is converted to ATP. However, since these assays require measurement of ATP in the sample before conversion of ADP to ATP, if the nascent ATP concentration is significantly higher than the ADP concentration, the ATP signal will drown out the ADP signal. The newly designed ADP Assay Kit provides a convenient fluorometric means to measure ADP level even in the presence of ATP. In the assay, ADP is converted to ATP and pyruvate. The generated pyruvate is then quantified by a fluorimetric method ($\lambda_{exc}/\lambda_{em} = 530/590\text{nm}$). The assay is simple, sensitive, stable, high-throughput adaptable and can detect as low as $0.1 \mu\text{M}$ ADP in biological samples.

Storage

-20°C

Shipping

On Ice

Size

100 tests

Detection method FL530/590nm

Compatible Sample Types

Cells and other biological samples

Features & Benefits



CREATIVE BIOMART[®]
Assay Kit

ADP Fluorimetric Assay Kit

Safe. Non-radioactive assay.

Sensitive and accurate. As low as 0.1 μM ADP can be quantified.

Homogeneous and convenient. "Mix-incubate-measure" type assay. No wash and reagent transfer steps are involved.

Robust and amenable to HTS: Can be readily automated on HTS liquid handling systems for processing thousands of samples per day.

Assay time

30 min

Sensitivity

0.1 μM
