ADP Colorimetric Assay Kit

Cat. No. Kit-0056 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ADP Assay Kit (Colorimetric) is a quantitative colormetric determination of ADP at 450 nm.
Description	ADP is a product of ATP dephosphorylation and it can be rephosphorylated to ATP. Dephosphorylation and rephosphorylation occur via various phosphorylases and kinases. ADP is stored in platelets and can be released to interact with variety of purinergic receptors. ADP levels regulate several enzymes involved in intermediary metabolism. ADP conversion to ATP primarily occurs within the mitochondrion and chloroplast although several such processes occur in the cytoplasm. Conventionally, ADP levels are measured by luciferase/luciferin mediated assays after ADP is converted to ATP. However, the luciferase system is unstable and luminescence equipment is not generally available in most laboratories. ADP Assay Kit (Colorimetric) is suitable for measuring ADP levels in samples that contain reducing substances, which may interfere with oxidase-based assays. In this assay, ADP in the presence of ADP Enzyme Mix is converted to an intermediate, which reduces a colorless Probe to a colored product with strong absorbance at 450 nm. ADP Assay Kit is simple, fast and high-throughput ready. It can detect less than 20 μM of ADP in samples.
Applications	Measurement of ADP in various tissues/cells.Analysis of metabolism and cell signaling in various cell types.
Usage	For research use only (RUO)

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Storage	Store kit at -20°C, protected from light. Warm Assay Buffer to room temperature before use. Briefly centrifuge all small vials prior to opening.
Kit Components	ADP Assay Buffer. Cap code: WM. 27 mlADP Enzyme Mix (Lyophilized). Cap code: purple. 1 vialDeveloper (Lyophilized). Cap code: green. 1 vialProbe (Lyophilized). Cap code: red. 1 vialADP Standard (Lyophilized). Cap code: yellow. 1 vial
Detection method	Colorimetric
Compatible Sample Types	Attached Cell, Suspension Cell, Tissue

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