CREATIVE BIOMART®
Assay Kit

ADP/ATP Ratio Bioluminescence Assay Kit

Product Information

Product Overview

ADP/ATP Ratio Assay Kit provides a rapid method to measure ADP and ATP levels for the screening of apoptosis, necrosis and cell proliferation in mammalian cells. The assay involves two steps. In the first step, the working reagent lyses cells to release ATP and ADP. In the presence of luciferase, ATP immediately reacts with the Substrate D-luciferin to produce light. The light intensity is a direct measure of intracellular ATP concentration.
In the second step, the ADP is converted to ATP through an enzyme reaction. This newly formed ATP then reacts with the D-luciferin as in the first step.
This non-radioactive, homogeneous cell-based assay is performed in microplates. The reagent is compatible with all culture media and with all liquid handling systems for high-throughput screening applications in 96-well and 384-well plates.

Size

100 tests

Storage

The kit is shipped on ice. Store all reagents at -20°C.

Kit Components

Assay Buffer: 10 mL
Substrate: 120 µL
Cosubstrate 120 µL
ATP Enzyme: 120 µL
ADP Enzyme: 120 µL

Materials Required but Not Supplied

Pipetting devices, centrifuge tubes, white flat-bottom 96-well plates, luminescence plate reader.

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