CREATIVE BIOMART®
Assay Kit

# ADP/ATP Ratio Assay Kit

## Product Information

**Cat.No.** Kit-0058

**Product Overview**

ADP/ATP Ratio Assay Kit is a bioluminescent assay for ADP/ATP ratio.

**Description**

Changes in the ADP/ATP ratio have been used to differentiate modes of cell death and viability. Increased levels of ATP and decreased levels of ADP signify proliferating cells. Conversely, decreased levels of ATP and increased levels of ADP represent apoptotic or necrotic cells where the decrease in ATP and increase in ADP is much more pronounced in necrosis versus apoptosis.

**Applications**

Apoptosis and Necrosis determination in cells.Cell proliferation: effects of cytokines, growth factor, nutrients.Drug discovery: high-throughput screening for anticancer drugs.

**Usage**

For research use only (RUO)

**Storage**

Store all reagents at -20°C. Shelf life: 12 months after receipt.

**Kit Components**

Assay Buffer 10 mLSubstrate 120 µLCosubstrate 120 µLATP Enzyme 120 uLADP Enzyme 120 uL

**Compatible Sample Types**

Cell

**Features & Benefits**

Safe. Non-radioactive assay.Homogeneous and convenient. "Mix-incubate-measure" type assay. No wash and reagent transfer steps are involved.Robust and amenable to HTS: Z" factors of 0.5 and above are routinely observed in 96-well and 384-well plates. Can be readily automated on HTS liquid handling systems for processing thousands of samples per day.

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