

ADP/ATP Ratio Assay Kit

Cat. No. Kit-0058 **Lot. No.** (See product label)

SPECIFICATION

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 mL Substrate 120 µL Co-substrate 120 µL ATP Enzyme 120 uL ADP 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

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plates. Can be readily automated on HTS liquid handling systems for processing thousands of samples per day.

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