CREATIVE BIOMART®
Assay Kit

Mitochondrial Permeability Transition Pore Assay Kit

Product Information

Cat

Kit-2286

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Product Overview

Mitochondria are the power centrals of the cell and play an essential role in energy production. Damage to mitochondria activates signaling pathways that induce apoptosis. The mitochondrial permeability transition pore (MPT pore or MPTP) is a nonspecific channel formed by components of the inner and outer mitochondrial membranes, and appears to be involved in the release of mitochondrial components during cell death. In healthy cells, MPTP's flicker between open and closed states but during cell death MPTP's dramatically alter the permeability of the mitochondria. Cytochrome c release and loss of mitochondrial membrane potential are subsequent to continuous pore activation. Mitochondrial Permeability Transition Pore Assay Kit provides a direct method of measuring cell death by measuring MPTP opening rather than relying on mitochondrial membrane potential alone.

Applications

Measure mitochondrial permeability transition pore activity in cells
Assessment of physiological mediators and antibodies that affect cell viability/cytotoxicity

Storage

-20°C

Shipping

Gel Pack

Size

100 assays

Kit Components

MPTP Staining Dye; CoCl2; Ionomycin; MPTP Wash Buffer

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Target Species

Mammalian

Detection method Flow cytometry (Ex 488 nm)

Features & Benefits

Simple procedure;
Fast, convenient and sensitive;
The assay provides a direct method of measuring mitochondrial permeability transition pore activation as an early marker of apoptosis

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