CREATIVE BIOMART®
Assay Kit

Caspase-6 Fluorometric Assay Kit

Product Information

Cat.No. Kit-0171

Product Overview

Fluorometric assay kit for caspase-6 activity

Size

100 assay

Description

Activation of ICE-family proteases/caspases initiates apoptosis in mammalian cells. The Caspase-6 Fluorometric Assay Kit provides a simple and convenient means for assaying the activity of caspases that recognize the sequence VEID. The assay is based on detection of cleavage of substrate VEID-AFC (AFC: 7-amino-4-trifluoromethyl coumarin). VEID-AFC emits blue light (λmax = 400 nm); upon cleavage of the substrate by Mch2 or related caspases, free AFC emits a yellow-green fluorescence (λmax = 505 nm), which can be quantified using a fluorometer or a fluorecence microtiter plate reader.

Applications

Detect early/middle stages of apoptosis; differentiate apoptosis from necrosis.

Target Species

Mammal

Usage

For research use only. Not intended for any diagnostic or therapeutic purpose.

Storage

Store at -20°C. Product has an expected shelf life of 6-12 months.

Kit Components

Cell Lysis Buffer;2X Reaction Buffer;VEID-AFC (1 mM);DTT (1M)

Detection method low cytometry (400-nm excitation filter and 505-nm emission filter), fluorecence

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microtiter plate reader and fluorescence microscopy

Compatible Sample Types

Cell and tissue lysates

Features & Benefits

1. Simple one-step procedure; takes 1-2 hours2. Fast and convenient3. Comparison of the fluorescence of AFC from an apoptotic sample with an uninduced control allows determination of the fold increase in caspase-6 activity.

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