



Caspase-10 Fluorometric Assay Kit

Product Information

Cat.No.

Kit-0157

Product Overview

Fluorometric assay kit for caspase-10 activity

Size

100 assay

Description

Activation of ICE-family proteases/caspases initiates apoptosis in mammalian cells. The Caspase-10 Fluorometric Assay Kit provides a simple and convenient means for assaying the activity of caspases that recognize the sequence AEVD. The assay is based on detection of cleavage of substrate AEVD-AFC (AFC: 7-amino-4-trifluoromethyl coumarin). AEVD-AFC emits blue light ($\lambda_{max} = 400 \text{ nm}$); upon cleavage of the substrate by caspase-10 or related caspases, free AFC emits a yellow-green fluorescence ($\lambda_{max} = 505 \text{ nm}$), which can be quantified using a fluorometer or a fluorescence 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; AEVD-AFC (1 mM); DTT (1 M)



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Assay Kit

Caspase-10 Fluorometric Assay Kit

Detection method Fluorescence microtiter plate reader (400-nm excitation filter and 505-nm emission filter) and fluorescence microscopy

Compatible Sample Types

Cell and tissue lysates

Features & Benefits

1. Simple one-step procedure; takes only 1-2 hours. 2. Fast and convenient. 3. Comparison of the fluorescence of AFC from an apoptotic sample with an uninduced control allows determination of the fold increase in AEVD-dependent caspase activity.

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