Caspase-10 Fluorometric Assay Kit

Cat. No. Kit-0157 **Lot. No.** (See product label)

SPECIFICATION

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 (λmax = 400 nm); upon cleavage of the substrate by caspase-10 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;AEVD-AFC (1 mM);DTT (1 M)
Detection method	Fluorecence microtiter plate reader (400-nm excitation filter and 505-nm emission filter) and fluorescence microscopy

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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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