

Caspase-4 Fluorometric Assay Kit

Cat. No. GTX85552

References (1)

Package

100 assay

PRODUCT

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

- Detection method- Fluorescence microtiter plate reader (400-nm excitation filter and 505-nm emission filter) and fluorescence microscopy
- Sample type- Cell and tissue lysates
- Species reactivity- Mammalian
- Applications- Detect early/middle stages of apoptosis; differentiate apoptosis from necrosis.

Summary

Features and Benefits

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

Kit Contents:

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

Properties

Storage

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

Note

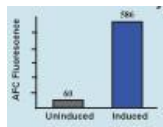
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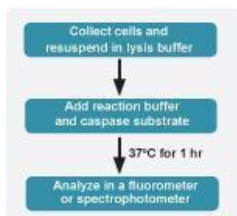


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DATA IMAGES

GTX85552 Image

GTX85552 Image

Example of GeneTex Fluorometric Caspase Activity Assay Kit: Analysis of Caspase-3 Activity in Jurkat cells. Apoptosis was induced in Jurkat cells by camptothecin (2 μ M) for 6 hours. Caspase activity was analyzed using Caspase-9 Colorimetric Assay Kit. Results were analyzed by spectrophotometer.


GTX85552 Image


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