

# Caspase-4 Fluorometric Assay Kit

**Cat No. GTX85552**

Reference ( 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

For laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

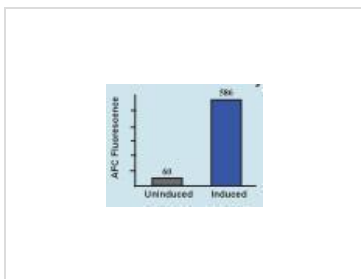


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DATA IMAGES

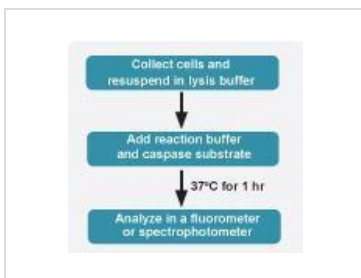


GTX85552 Image



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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  $\mu$ 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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