

# Caspase-1 Fluorometric Assay Kit

**Cat. No. GTX85569**

**Package**  
100 assay

## PRODUCT

Activation of ICE-family proteases/caspases initiates apoptosis or other cellular processes in mammalian cells. The Caspase-1/ICE Fluorometric Assay Kit provides a simple and convenient means for assaying the activity of caspases that recognize the sequence YVAD. The assay is based on detection of cleavage of substrate YVAD-AFC (AFC: 7-amino-4-trifluoromethyl coumarin). YVAD-AFC emits blue light (400 nm); upon cleavage of the substrate by caspase-1 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. Comparison of the fluorescence of AFC from a treated sample with an untreated control allows determination of the fold increase in caspase-1 activity.

- Detection method- Flow cytometry (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 1-2 hours
- Fast and convenient
- Comparison of the fluorescence of AFC from a treated sample with an untreated control allows determination of the fold increase in caspase-1 activity.

### Kit Contents:

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

## Properties

### Storage

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

### Note

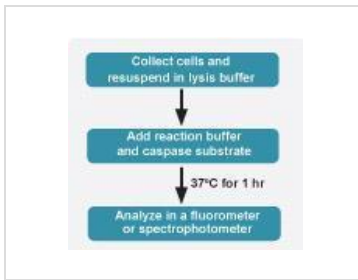
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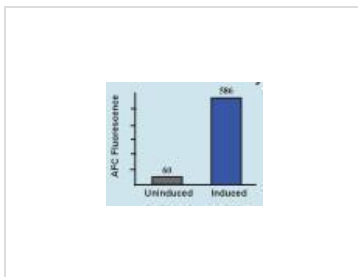


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## DATA IMAGES



**GTX85569 Image**



**GTX85569 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  $\mu$ M) for 6 hours. Caspase activity was analyzed using Caspase-9 Colorimetric Assay Kit. Results were analyzed by spectrophotometer.



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