# Caspase-1 Fluorometric Assay Kit

# Cat. No. GTX85569

	Package 100 assay
PRODUCT	
Summary	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 fluorecence 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.
	<ul> <li>Detection method- Flow cytometry (400-nm excitation filter and 505-nm emission filter)and fluorescence microscopy</li> <li>Sample type- Cell and tissue lysates</li> <li>Species reactivity- Mammalian</li> <li>Applications- Detect early/middle stages of apoptosis; differentiate apoptosis from necrosis.</li> </ul>
	Features and Benefits <ul> <li>Simple one-step procedure; takes 1-2 hours</li> <li>Fast and convenient</li> <li>Comparison of the fluorescence of AFC from a treated sample with an untreated control allows determination of the fold increase in caspase-1 activity.</li> </ul>
	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

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

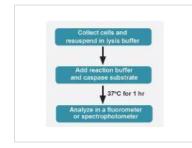
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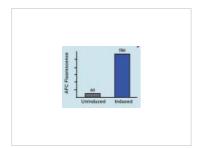
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## DATA IMAGES



### 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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