

Caspase-3 Colorimetric Assay Kit

Cat. No. GTX85558

References (6) Package 100 assay

PRODUCT

Content

	Kit components	Package
1.	Cell Lysis Buffer	100 ml
2.	2X Reaction Buffer	4 * 2 ml
3.	DEVD-pNA (4 mM)	0.5 ml
4.	DTT (1 M)	0.4 ml
5.	Dilution Buffer	100 ml

Activation of ICE-family proteases/caspases initiates apoptosis in mammalian cells. The Caspase-3/CPP32 Colorimetric Assay Kit provides a simple and convenient means for assaying the activity of caspases that recognize the sequence DEVD. The assay is based on spectrophotometric detection of the chromophore p-nitroaniline (pNA) after cleavage from the labeled substrate DEVD-pNA. The pNA light emission can be quantified using a spectrophotometer or a microtiter plate reader at 400- or 405-nm. Comparison of the absorbance of pNA from an apoptotic sample with an uninduced control allows determination of the fold increase in CPP32 activity.

Summary

- · Detection method- Spectrophotometer (400 0r 405 nm) or plate reader
- · Sample type- Cell and tissue lysates
- · Species reactivity- Mammalian
- · Applications- Detect early/middle stages of apoptosis; differentiate apoptosis from necrosis.

Features and Benefits

- · Simple one-step procedure; takes 1-2 hours
- · Fast and convenient
- · Comparison of the absorbance of pNA from an apoptotic sample with an uninduced control allows determination of the fold increase in CPP32 activity.

Properties		
Storage	Store at -20°C (Store Lysis Buffer, Reaction Buffer, and Dilution Buffer at 4°C after opening). 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.	
Note	Purchasers shall not, and agree not to enable third parties to, analyze, copy, reverse engineer or otherwise attempt to determine the structure or sequence of the product.	

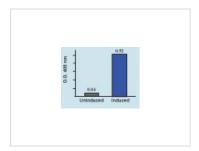


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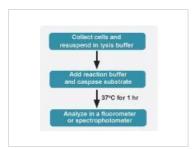


DATA IMAGES



GTX85558 Image

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.



GTX85558 Image



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