

Caspase-3 Colorimetric Assay Kit

Cat. No. GTX85558

References (6)

Package

100 assay

PRODUCT

	Kit components	Package
Content	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 Or 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.

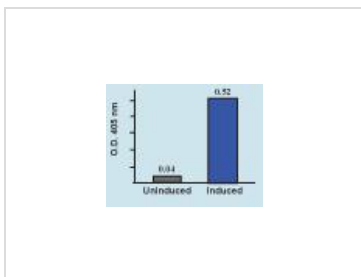
Note

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

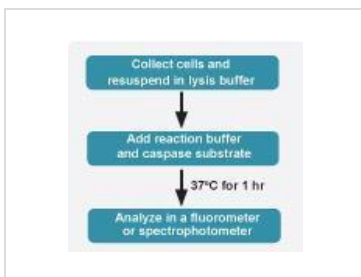
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DATA IMAGES

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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