

Caspase-3 Colorimetric Assay Kit

Cat. No. GTX85558

References (5)

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 |

Summary

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.

- 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

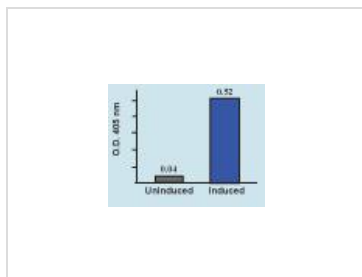
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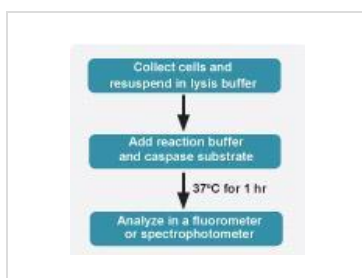
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DATA IMAGES



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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