

Caspase-3 Inhibitor Z-DEVD-FMK

Product Description

Name: Z-DEVD-FMK 2mM solution (1000X dilutions for cell culture)

CF8470, 100 µl

C₃₀H₄₁FN₄O₁₂

MW : 668,7

Storage: -20°C

For Research Use Only

Introduction

A synthetic peptide inhibitor that irreversibly inhibits caspase-3 and related protease/caspase activity and blocks apoptosis. DEVD is the specific recognition sequence found in poly (ADP-ribose) polymerase (PARP). The inhibitor is designed as a methyl ester to facilitate cell permeability. (CAUTION: If the intended use is on purified or recombinant enzymes, esterase should be added to generate free carboxyl groups).

Directions for use

Guidelines for use

Dilute from the stock solution into culture medium after cell pre-incubation/activation. Optimal inhibitor concentration is dependent upon cell type. An effective final concentration is estimated to be 5–100µM. (final concentration of 2µM is recommended for inhibiting caspase activity in Jurkat cell culture).

Ten to twenty minutes of inhibitor incubation is suggested.

Note: Levels of DMSO above 0.2% may cause some cellular toxicity in culture medium, thus masking the effect of the inhibitor. This inhibitor is designed as a methyl ester to facilitate cell permeability. If the intended use is on purified or recombinant enzymes, an esterase should be added to generate the free carboxyl groups.

Technical and Scientific Information

References

- **Emdad L. et al.**, Is there a common upstream link for autophagic and apoptotic cell death in human high-grade gliomas ?, *Neuro Oncol* (2011) 13 (7): 725-735 [Article](#)
- **Shakibaei M. et al.**, TNF-α-Induced Mitochondrial Alterations in Human T Cells Requires FADD and Caspase-8 Activation but Not RIP and Caspase-3 Activation, *ARS Central*, Volume: 13 Issue 6 (2010) [Abstract](#)

Ordering information

Catalog size quantities and prices may be found at <http://www.interchim.com>.

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