

# Caspase-Family Inhibitor, Z-VAD-FMK

<b>CATALOG #:</b>	1140-1	1 mg
	1140-5	5 mg
<b>LOT #:</b>	_____	
<b>STORAGE:</b>	Store at $-20^{\circ}\text{C}$ .	
<b>SHELF LIFE:</b>	1 year under proper storage conditions	
<b>MOLECULAR WEIGHT:</b>	468.0	
<b>SEQUENCE:</b>	Z-Val-Ala-Asp(OME)-FMK	
<b>PURITY:</b>	One spot by TLC	
<b>PACKAGE CONTENTS:</b>	1 mg (or 5 mg) lyophilized powder	
<b>RECONSTITUTION:</b>	Reconstitute in DMSO (20 mM)	

## DESCRIPTION:

A synthetic peptide that irreversibly inhibits activity of caspase family proteases and blocks apoptosis. The inhibitor is designed as a methyl ester to facilitate cell permeability. The product can be used for both in vitro and in vivo studies.

## RECOMMENDED USAGE:

We recommend using 2-10  $\mu\text{M}$  for inhibiting caspase activity in cell culture. The optimal doses may vary for different cells and culture conditions. NOTE: For research use only! Not to be used in humans.

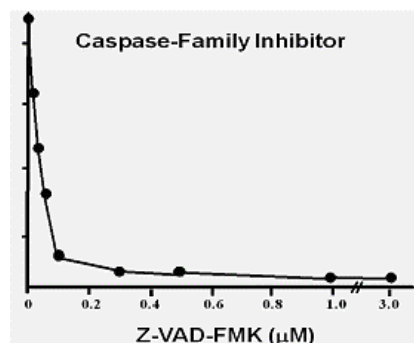


Fig. 1. Apoptosis was induced in Jurkat cells with camptothecin (2 mM) for 6 hours in the presence of various concentrations of Caspase-Family Inhibitor, Z-VAD-FMK. Caspase activity was measured using Caspase-3 Fluorometric Assay Kit (K105-25) according to the kit instructions.

## RELATED PRODUCTS:

### Apoptosis Detection Kits & Reagents

- Annexin V Kits & Bulk Reagents
- Caspase Assay Kits & Reagents
- Mitochondrial Apoptosis Kits & Reagents
- Nuclear Apoptosis Kits & Reagents
- Apoptosis Inducers and Set
- Apoptotic Cell Isolation Kit

### Cell Fractionation System

- Mitochondria/Cytosol Fractionation Kit
- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

### Cell Proliferation & Senescence

- Quick Cell Proliferation Assay Kit
- Senescence Detection Kit
- High Throughput Apoptosis/Cell Viability Assay Kits
- LDH-Cytotoxicity Assay Kit
- Bioluminescence Cytotoxicity Assay Kit
- Live/Dead Cell Staining Kit

### Cell Damage & Repair

- HDAC Fluorometric & Colorimetric Assays & Drug Discovery Kits
- HAT Colorimetric Assay Kit & Reagents
- DNA Damage Quantification Kit
- Glutathione & Nitric Oxide Fluorometric & Colorimetric Assay Kits

### Signal Transduction

- cAMP & cGMP Assay Kits
- Akt & JNK Activity Assay Kits
- Beta-Secretase Activity Assay Kit

### Adipocyte & Lipid Transfer

- Recombinant Adiponectin, Survivin, & Leptin
- CETP Activity Assay & Drug Discovery Kits
- PLTP Activity Assay Kit
- Total Cholesterol Quantification Kit

### Molecular Biology & Reporter Assays

- siRNA Vectors
- Cloning Insert Quick Screening Kit
- Mitochondrial & Genomic DNA Isolation Kits
- 5 Minutes DNA Ligation Kit
- 20 Minutes Gel Staining/Destaining Kit
- $\beta$ -Galactosidase Staining Kit & Luciferase Reporter Assay Kit

### Growth Factors and Cytokines

### Quality Antibodies for Apoptosis and Signal Transduction Molecules