For research use only

Caspase-Family Inhibitor, Z-VAD-FMK

CATALOG #: 1010-20C

LOT #: _____

STORAGE CONDITIONS: Store at –20°C.

SHELF LIFE: 1 year under proper storage conditions

MOLECULAR WEIGHT: 468.0

SEQUENCE: Z-Val-Ala-Asp-FMK
(FMK, fluoromethyl ketone)

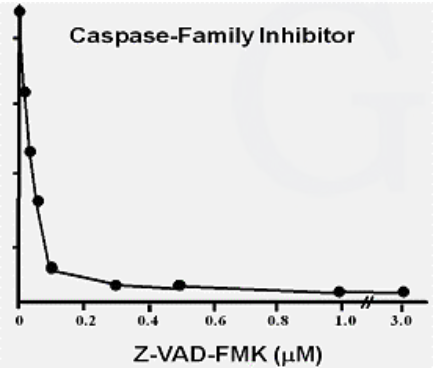
PURITY: >99% by HPLC analysis.

PACKAGE CONTENTS: 20 μl (10 mM) of Z-VAD-FMK in DMSO

DESCRIPTION:
A synthetic peptide that irreversibly inhibits ICE-family protease/caspase activity and blocks apoptosis. The inhibitor is designed as a methyl ester to facilitate cell permeability.

RECOMMENDED USAGE:
We recommend using 1000-5000X dilutions for inhibiting caspase activity in Jurkat cell culture (e.g., Add 1-5 μl to 5 ml of culture medium). The optimal doses may vary for different cells and culture conditions.

NOTE: For research purpose only! Not to be used in human.



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
- β-Galactosidase Staining Kit & Luciferase Reporter Assay Kit

Growth Factors and Cytokines

Quality Antibodies for Apoptosis and Signal Transduction Molecules