

Caspase-1/ICE Inhibitor, Z-YVAD-FMK

rev. 10/12

For research use only

CATALOG #:	1012-100
STORAGE CONDITIONS:	Store at – 20°C.
SHELF LIFE:	1 year under proper storage conditions
MOLECULAR WEIGHT:	630.7
SEQUENCE:	Z-Tyr-Val-Ala-Asp (OMe)-FMK (FMK, fluoromethyl ketone)
PURITY:	>99% by HPLC analysis
PACKAGE CONTENTS:	100 µl Z-YVAD-FMK (2 mM) in DMSO

DESCRIPTION: A synthetic peptide that irreversibly inhibits ICE (interleukin-1 β converting enzyme, K_i = 0.76 nM) activity. YVAD is the preferred recognition sequence for caspase-1. 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).

RECOMMENDED USAGE:

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

REFERENCES:

- Schlegel, J., *et al.* (1996) *J. Biol. Chem.* **271**:1841-1485.
- Nicholson, D.W., *et al.* (1995) *Nature* **376**:37-40.
- Walker, N.P.C., *et al.* (1994) *Cell* **78**:343-349.
- Thornberry, N., *et al.* (1992) *Nature* **356**:768-771.

FOR RESEARCH USE ONLY! Not to be used in humans.

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
- Apoptosis siRNA Vectors

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 & Drug Discovery Kits
- 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

Monoclonal and Polyclonal Antibodies