

Biotinylated Caspase-Family Inhibitor, Biotin-VAD-FMK

CATALOG #:	1123-20C
STORAGE CONDITIONS:	Store at -20° C.
SHELF LIFE:	6 months under proper storage conditions
MOLECULAR WEIGHT:	672.81
SEQUENCE:	Biotin-Val-Ala-Asp(OMe)-FMK (FMK, fluoromethyl ketone)
PURITY:	>95% by HPLC analysis.
PACKAGE CONTENTS:	20 µl (10 mM) Biotin-VAD-FMK in DMSO

DESCRIPTION:

A synthetic peptide that irreversibly inhibits activity of caspase family proteases and blocks apoptosis. The inhibitor is designed as a methyl ester to enhance cell permeability. The conjugation with biotin allows detection of activated caspases in conjunction with avidin-tags.

(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 1000X dilutions for inhibiting or binding to activated caspases (e.g., Add 1 µl to 1 ml of culture medium). However, the optimal doses should be determined individually.

REFERENCES:

1. Slee, E.A., *et al.* (1996) *Biochem. J.* **315**:21-24.
2. Armstrong, *et al.* (1996) *J. Biol. Chem.* **271**:16850-16857.
3. Qi, X.M., *et al.* (1997) *Oncogene* **15**:1207-1212.

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

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