

## Caspase-2/Ich1 Inhibitor, Z-VDVAD-FMK

|                            |   |
|----------------------------|---|
| <b>CATALOG #:</b>          | 1073-20C  |
| <b>LOT #:</b>              | _____   |
| <b>STORAGE CONDITIONS:</b> | Store at -20°C.   |
| <b>SHELF LIFE:</b>         | 1 year under proper storage conditions                  |
| <b>MOLECULAR WEIGHT:</b>   | 695.0   |
| <b>SEQUENCE:</b>           | Z-Val-Asp-Val-Ala-Asp-FMK<br>(FMK, fluoromethyl ketone) |
| <b>PURITY:</b>             | >98% by HPLC analysis.                                  |
| <b>PACKAGE CONTENTS:</b>   | 20 µl of Z-VDVAD-FMK (10 mM)                            |

### DESCRIPTION:

A synthetic peptide that irreversibly inhibits caspase-2 and related caspase activity. The inhibitor is designed as a methyl ester to facilitate cell permeability.

### RECOMMENDED USAGE:

We recommend using 1000-5000X dilutions for inhibiting caspase-2 activity in Jurkat cell culture (e.g., Add 0.2-1 µl to 1 ml of culture medium). The optimal doses may vary for different cells and culture conditions.

### REFERENCES:

1. Thornberry, N.A., *et al.* (1997) *J. Biol. Chem.* **272**:17907-17911.
2. Talanian, R.V., *et al.* (1997) *J. Biol. Chem.* **272**:9677-9682.

### 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