

# Caspase-Family Inhibitor, Q-VD-OPH

**CATALOG #:** 1170-1 1 mg  
1170-5 5 mg

**LOT.#:** \_\_\_\_\_

**STORAGE CONDITIONS:** Store at -20°C.

**Solubility:** Soluble in DMSO

**SHELF LIFE:** 1 year under proper storage conditions

**MOLECULAR WEIGHT:** 514

**SEQUENCE:** Quinolyl-Val-Asp-OPH

**PURITY:** >95% by HPLC analysis

**APPEARANCE:** White solid

## DESCRIPTION:

A synthetic peptide that is potent, cell permeable, nontoxic and irreversibly inhibits caspase activity to blocks apoptosis. The new generation of caspase inhibitor is more stable in aqueous environment and exhibits several folds higher activity than the corresponding FMK caspase inhibitors. Q-VD-OPH is the inhibitor of choice for both *in vitro* and *in vivo* studies.

## RECOMMENDED USAGE:

We recommend using 1-10  $\mu$ M concentration for *in vitro* enzyme kinetics studies. For *in vivo* usage, quantity needs to be determined by researcher. 20 mg/Kg of body weight is a proper place to start.

**NOTE:** For research purpose 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
- 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