

## PRODUCT: Apicidin

[cyclo-L-(2-Amino-8-oxodecanoyl)-L-(N-methoxy-tryptophan)-L-isoleucyl-D-pipecolinyl]Suberoylanilide hydroxamic acid]

<b>CATALOG #:</b>	1601-1
<b>AMOUNT:</b>	1 mg
<b>LOT #:</b>	_____
<b>MOLECULAR FORMULA:</b>	C <sub>34</sub> H <sub>49</sub> N <sub>5</sub> O <sub>6</sub>
<b>MOLECULAR WEIGHT:</b>	623.8
<b>CAS NUMBER:</b>	183506-66-3
<b>FORM:</b>	Off-white solid. Packaged under an inert gas.
<b>PURITY:</b>	≥95% by HPLC
<b>SOLUBILITY:</b>	Soluble in DMSO (50 mg/ml) or ethanol

### STORAGE CONDITIONS:

Store at -20°C. Protect from light. Stable for at least 1 year as supplied. Following reconstitution, aliquot and freeze at -20°C. The stock solutions are stable for up to 1 month at -20°C.

### DESCRIPTION:

A potent, cell permeable inhibitor of histone deacetylase (IC<sub>50</sub> = 700 pM for parasitic histone deacetylase). Inhibits HeLa cell proliferation (IC<sub>50</sub> = 50 – 100 nM) and induces the transcriptional activation of p21 (WAF1) in a reversible manner. Also prevents H-ras-induced invasive phenotype of MCF-10A cells possibly by down regulating MMP-2 in a reversible manner.

**CAUTION:** May be harmful by inhalation, in contact with skin and if swallowed.

### REFERENCES:

1. Kim, J.S., et al. (2001) *Biochem. Biophys. Res. Commun.* 281:866.
2. Colletti, L.S., et al. (2001) *Bioorg. Med. Chem. Lett.* 11:107.

### 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