

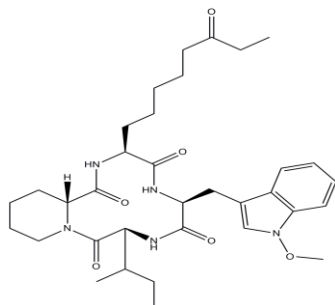
Apicidin

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

CATALOG #: 1601-1

AMOUNT: 1 mg

STRUCTURE:



MOLECULAR FORMULA: C₃₄H₄₉N₅O₆

MOLECULAR WEIGHT: 623.8

CAS NUMBER: 183506-66-3

FORM: Off-white solid. Packaged under an inert gas.

PURITY: ≥95% by HPLC

SOLUBILITY: 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 (IC₅₀ = 700 pM for parasitic histone deacetylase). Inhibits HeLa cell proliferation (IC₅₀ = 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:

- Kim, J.S., et al. (2001) *Biochem. Biophys. Res. Commun.* 281:866.
- 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

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- HAT Colorimetric Assay Kit & Reagents
- DNA Damage Quantification Kit
- Glutathione & Nitric Oxide Fluorometric & Colorimetric Assay Kits

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Growth Factors and Cytokines