

**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>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.

**USAGE:** For research use only. Not to be used in human.

**REFERENCES:**

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

**RELATED PRODUCTS:**

1. KinaseSTAR™ JNK & Akt Activity Assay Kit
2. Histone Deacetylase Fluorometric & Colorimetric Assay Kits
3. Calpain Activity Assay Kit
4. Apoptotic Cell Isolation Kit
5. MitoCapture™ Mitochondrial Apoptosis Detection Kit
6. Mitochondria/Cytosol Fractionation Kit
7. Nuclear/Cytosol Fractionation Kit
8. Cytochrome c Releasing Apoptosis Assay Kit
9. ApoSENSOR™ ATP Determination Kit & ADP/ATP Ratio Assay Kit
10. ApoGSH™ Glutathione Detection Kit
11. Nitric Oxide Fluorometric & Colorimetric Detection Kits
12. Annexin V-FITC, -Cy3, -Cy5, -EGFP, -PE, -Biotin Kits and Bulk Reagents
13. CaspSCREEN™ Flow Cytometric Caspase Assay Kit
14. CaspGLOW™ Active Caspase Staining Kits
15. CaspSELECT™ Caspase-3 & -7 Immunoassay Kits
16. Caspase-1,-2,-3,-5,-6,-8,-9,-10 Activity Assay Kits
17. Recombinant Human, Mouse, Rat Active Caspases & Procaspsases
18. Ready-to-use Caspase Inhibitors & Sets
19. Ready-to-use Caspase Substrates and Sets
20. Quick Apoptotic DNA Ladder Detection Kit
21. TUNEL-based DNA Fragmentation Assay Kits
22. Ready-to-use Apoptosis Inducers and Set
23. Quick Cell Proliferation Assay Kit
24. LDH-Cytotoxicity Assay Kit
25. Live-Dead Cell Staining Kit
26. Anti-Caspase-1,-2,-3,-4,-5,-6,-7,-8,-9,-10,-11,-12,-13,-14 & Active Caspases
27. Anti-Apaf-1, Bcl-2, Bcl-x, Bax, Bad, Bid, Bim/Bod, Mcl-1, Cytochrome c
28. Anti-DFF40, DFF45, FADD, p53, IRAK, Wee1, CD40, DcR2, cFLIP, CTGF
29. Many Other Apoptosis & Cell Signaling Related Antibodies
30. Anti-GFP, His, GST, and Other Tag Antibodies
31. Growth Factors, Cytokines & Chemokines (many)
32. Link-FAST™ 5 Minutes DNA Ligation Kit
33. Gel-FAST™ 20 Minutes Gel Staining/Destaining Kit

