

## Product Information

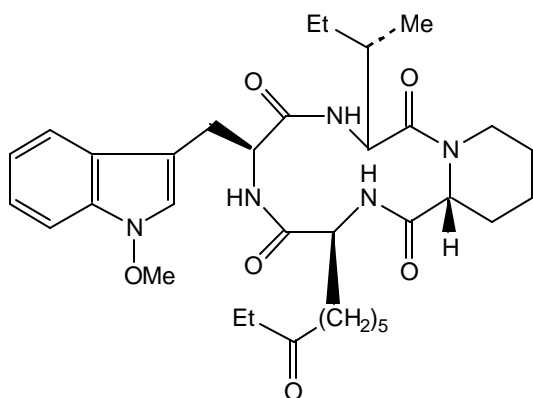
### Apicidin, microbial source

Product Number **A8851**

Store at  $-20\text{ }^{\circ}\text{C}$

Cas #: 183506-66-3

Chemical Name: Cyclo[(2S)-2-amino-8-oxodecanoyl-1-methoxy-L-tryptophyl-L-isoleucyl-(2R)-2-piperidinecarbonyl]



### Product Description

Molecular Formula:  $\text{C}_{34}\text{H}_{49}\text{N}_5\text{O}_6$

Molecular Weight: 623.78

Apicidin, from microorganism origin, is a potent (nM) cell permeable inhibitor of histone deacetylase. It also exhibits antiprotozoal and potential anti-malarial properties.

Apicidin has antiproliferative activity on HeLa cells accompanied by cell arrest at G1phase. In addition, it induces selective changes in the expression of p21 and gelsolin.

### Reagent

Apicidin is supplied as a solid.

Purity: >95% (HPLC)

### Precautions and Disclaimer

Consult the MSDS for information regarding hazards and safe handling practices.

### Preparation Instructions

Apicidin is soluble in dimethyl sulfoxide (DMSO) and ethanol at approximately 1 mg/ml.

### Storage/Stability

For extended storage, freeze at  $-20\text{ }^{\circ}\text{C}$ .

For continuous use, this product may be stored at  $2-8\text{ }^{\circ}\text{C}$  for at least 6 months. A solution of apicidin in DMSO at 1 mg/ml is stable at  $2-8\text{ }^{\circ}\text{C}$  for at least one month.

### References

1. Kwon, et al., J. Biol. Chem., **277**, 2073 (2002).
2. Colleti, et al., Bioorg. Med. Chem. Lett., **11**, 107 (2001).
3. Andrews, et al., Int. J. Parasitol., **30**, 761 (2000).
4. Kim, J.S., et al., Biochem. Biophys. Res. Commun., **281**, 866 (2001).
5. Han, J.W., et al., Cancer Res., **60**, 6068 (2000).

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