

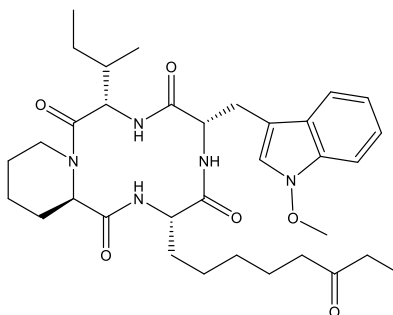
**Catalog # 10-2057**

**Apicidin**

CAS# 183506-66-3

Cyclo[(2S)-2-amino-8-oxodecanoyl-1-methoxy-L-tryptophyl-L-isoleucyl-(2R)-2-piperidinexcarbonyl]

Lot # X102303



Apicidin is a fungal toxin that is a potent, cell permeable inhibitor of histone deacetylases (HDAC's).<sup>1</sup> It also displays antitumor properties by inducing changes in p21WAF1/Cip1 and gelsolin gene expression causing cell cycle arrest in the G1 phase.<sup>2</sup> Apicidin dramatically decreases HIF-1 $\alpha$  protein levels and transcriptional activity in human and mouse tumor cell lines.<sup>3</sup>

- 1) Darkin-Rattray, *et al.* (1996) *Apicidin: a novel antiprotozoal agent that inhibits parasite histone deacetylase* Proc.Nat.Acad.Sci. USA **93** 13143
- 2) Han, *et al.* (2000) *Apicidin, a histone deacetylase inhibitor, inhibits proliferation of tumor cells via induction of p21WAF1/Cip1 and gelsolin* Cancer Res. **60** 6068
- 3) Kim, *et al.* (2007) *Regulation of the HIF-1alpha stability by histone deacetylases* Oncol. Rep. **17** 647

**PHYSICAL DATA**

Molecular Weight:	623.78
Molecular Formula:	C <sub>34</sub> H <sub>49</sub> N <sub>5</sub> O <sub>6</sub>
Purity:	>98%
Solubility:	DMSO (1 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Protect from exposure to air. Store solutions at -20°C for up to 3 months.

**Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.**