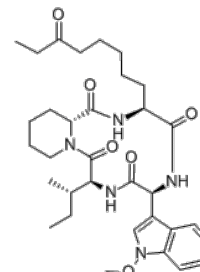


**Product Name** : Apicidin  
**Cat. No.** : PC-62466  
**CAS No.** : 183506-66-3  
**Molecular Formula** : C<sub>34</sub>H<sub>49</sub>N<sub>5</sub>O<sub>6</sub>  
**Molecular Weight** : 623.78  
**Target** : HDAC  
**Solubility** : 10 mM in DMSO



## Biological Activity

Apicidin (OSI 2040) is a fungal metabolite that exhibits potent, broad spectrum **antiprotozoal** activity in vitro, potently inhibits **HDAC** with IC<sub>50</sub> of 0.7 nM in an enzyme activity assay.

Apicidin induces morphological changes, cell cycle arrest at G1 phase, and accumulation of hyperacetylated histone H4 in HeLa cells, changes the expression of p21WAF1/Cip1 and gelsolin.

Apicidin upregulates Foxa2 expression via hyperacetylation of H3 and a decrease in H3K27 trimethylation on the promoter regions.

## References

Darkin-Rattray SJ, et al. *Proc Natl Acad Sci U S A*. 1996 Nov 12;93(23):13143-7.

Han JW, et al. *Cancer Res*. 2000 Nov 1;60(21):6068-74.

Bang SY, et al. *Stem Cells Dev*. 2015 Feb 15;24(4):520-33.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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