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DATASHEET

Apicidin

Product overview

Name	Apicidin
Cat No	HB1384
Biological action	Inhibitor
Purity	>98%
Description	Potent HDAC inhibitor

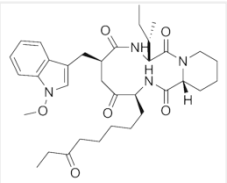
Biological Data

Biological description	Potent histone deacetylase (HDAC) inhibitor (IC_{50} = 5 nM). Shows anti-protozoal, anti-angiogenic, anti-proliferative and anti-cancer actions.

Solubility & Handling

Storage instructions	-20°C
Solubility overview	Soluble in DMSO (2mM) or ethanol (2mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	Cyclo[(2*S*)-2-Amino-8-oxodecanoyl-1- methoxy-L-tryptophyl-L-isoleucyl-(2*R*)-2-piperidine carbonyl]
Molecular Weight	623.78
Chemical structure	
Molecular Formula	$C_{34}H_{49}N_5O_6$
CAS Number	183506-66-3
PubChem identifier	44593387
SMILES	CON2C1=CC=CC=C1C(C[C@@H](C(N[C@@H]([C@H](C)CC)C3=O)=O)NC([C@H](CCCCCC(CC)=O)NC([C@]4([H])N3CCCC4)=O)=O)=C2
InChiKey	JWOGUUIOCYMBPV-VWIQTCEGSA-N

References

Apicidin, a histone deacetylase inhibitor, inhibits proliferation of tumor cells via induction of p21WAF1/Cip1 and gelsolin.

Han JW *et al* (2000) Cancer Res 60(21)

PubMedID 11085529

Apicidin: a novel antiprotozoal agent that inhibits parasite histone deacetylase.

Darkin-Rattray SJ *et al* (1996) Proc Natl Acad Sci U S A 93(23)
PubMedID 8917558

Apicidin is a histone deacetylase inhibitor with anti-invasive and anti-angiogenic potentials.

Kim SH *et al* (2004) Biochem Biophys Res Commun 315(4)
PubMedID 14985106