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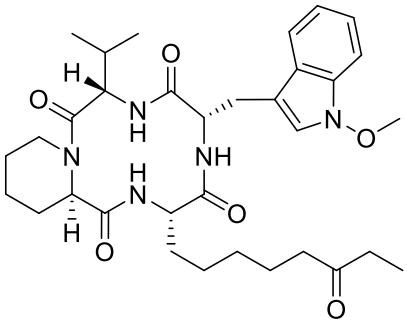
PRODUCT DATA SHEET

Apicidin C

Code No.: **BIA-A2982**

Pack sizes: **0.5 mg, 2.5 mg**



Synonyms : -

Specifications

CAS #	:	**366448-28-4**
Molecular Formula	:	**$C_{33}H_{47}N_5O_6$**
Molecular Weight	:	**609.8**
Source	:	***Fusarium* sp.**
Appearance	:	**White solid**
Purity	:	**>95% by HPLC**
Long Term Storage	:	**-20°C**
Solubility	:	**Soluble in methanol, DMSO.**

Application Notes

Apicidin C is the valine analogue of the rare cyclic tetrapeptide, apicidin, produced by Fusarium sp.. The apicidins are histone deacetylase inhibitors and have potent and broad spectrum antitumor, antiparasitic and antiprotozoan activity. The apicidins inhibit quorum sensing in bacterial infections.

References

1. Structure, histone deacetylase, and antiprotozoal activities of apicidins B and C, congeners of apicidin with proline and valine substitutions. Singh S. et al. Organic Letters 2001, 3, 2815.
2. Structure and chemistry of apicidins, a class of novel cyclic tetrapeptides without a terminal α-Keto epoxide as inhibitors of histone deacetylase with potent antiprotozoal activities. Singh S. et al. J Org Chem. 2002, 67, 815.
3. Methods and compositions for the inhibition of quorum sensing in bacterial infections. Pearce C. et al. WO2017197303 A1 2017-11-16.
4. Apicidin, a histone deacetylase inhibitor, inhibits proliferation of tumor cells via induction of p21WAF1/Cip1 and gelsolin. Han J.W. et al. Cancer Res. 2000, 60, 6068.

For in vitro laboratory use only. Not for human or animal use.

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Building C, 28-54 Percival Road, Smithfield, NSW 2164, AUSTRALIA

Tel: 61 2 9757 4515 Fax: 61 2 9757 2586 Web: www.bioaustralis.com Email: info@bioaustralis.com