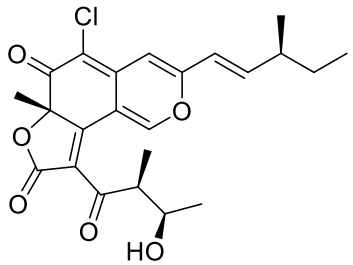
bioaustralis
fine chemicals

PRODUCT DATA SHEET

Chaetoviridin A

Code No.: **BIA-C1907**

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



Synonyms : 5'-Hydroxychaetoviridine F

Specifications

CAS #	:	**128252-98-2**
Molecular Formula	:	**$C_{23}H_{25}ClO_6$**
Molecular Weight	:	**432.9**
Source	:	***Chaetomium* sp.**
Appearance	:	**Yellow to orange powder**
Purity	:	**>95% by HPLC**
Long Term Storage	:	**-20°C**
Solubility	:	**Soluble in DMSO, methanol, chloroform or acetone.**

Application Notes

Chaetoviridin A, an azaphilone isolated from Chaetomium sp., is a potent antifungal against plant pathogenic fungi in vitro and in vivo, suppressing the development of rice blast and wheat leaf rust by over 80% at a concentration of 62.5 mcg/mL. Chaetoviridin A has antitumor properties and inhibits tumor promotion induced by 12-O-tetradecanoylphorbol-13-acetate via an anti-inflammatory effect. Chaetoviridin A has moderate inhibitory activity against cholesteryl ester transfer protein (CETP).

References

1. Antifungal activity against plant pathogenic fungi of chaetoviridins isolated from Chaetomium globosum. Park J-H. et al. J Antibiot. 1999, 52, 160.
2. Cytotoxic nitrogenated azaphilones from the deep-sea-derived fungus Chaetomium globosum MP4-S01-7. Wang W. et al. J Nat Prod. 2020, 83, 1157.
3. Azaphilones inhibit tumor promotion by 12-O-tetradecanoylphorbol-13-acetate in two-stage carcinogenesis in mice. Yasukawa K. et al. Oncology 1994, 51, 108.
4. Structure-specific inhibition of cholesteryl ester transfer protein by azaphilones. Tomoda H. et al. J Antibiot. 1999, 52, 160.

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

Updated: 14 November 2025

© Copyright BioAustralis 2025

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