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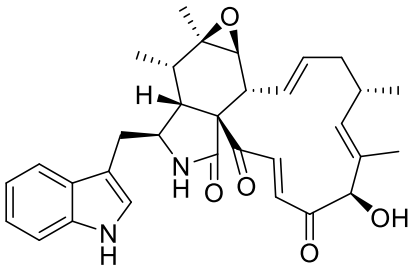
PRODUCT DATA SHEET

Chaetoglobosin A

Code No.: **BIA-C1927**

Pack sizes: **0.1 mg, 0.5 mg**



Synonyms : -

Specifications

CAS #	:	**50335-03-0**
Molecular Formula	:	**$C_{32}H_{36}N_2O_5$**
Molecular Weight	:	**528.6**
Source	:	***Chaetomium globosum***
Appearance	:	**Pale yellow solid**
Purity	:	**>95% by HPLC**
Long Term Storage	:	**-20°C**
Solubility	:	**Soluble in methanol or DMSO.**

Application Notes

Chaetoglobosin A is a mycotoxin of the cytochalasin class produced by Chaetonium globosum. Like other cytochalasins, chaetoglobosin A has a broad biological profile with antitumor, nematocidal, antifungal, antibiotic and antiamebic activity. Chaetoglobosin A targets the cytoskeleton of chronic lymphocytic leukemia cells, inducing apoptosis.

References

1. Chaetoglobosin A preferentially induces apoptosis in chronic lymphocytic leukemia cells by targeting the cytoskeleton. Knudsen P.B. et al. Leukemia 2014, 28, 1289.
2. Nematicidal activity of chaetoglobosin A poduced by Chaetomium globosum NK102 against Meloidogyne incognita. Yang et al. J Ag Food Chem. 2013, 61, 41.
3. Antifungal metabolites produced by Chaetomium globosum No.04, an endophytic fungus isolated from Ginkgo biloba. Zhang G. et al. Indian J Microbiol. 2013, 53, 175.
4. Antimicrobial activities of endophytic fungi of the Sri Lankan aquatic plant Nymphaea nouchali and chaetoglobosin A and C, produced by the endophytic fungus Chaetomium globosum. Dissanayake R. et al. Mycol. 2016, 7, 1.

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

Updated: 14 November 2025

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