

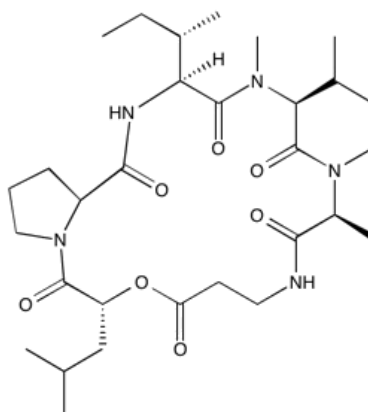
Catalog # 10-3312

Destruxin B

CAS# 2503-26-6

Fermentation product produced by *Metarrhizium anisopliae*

Lot # X107531



A cyclic decapeptide produced by various species of fungi.¹ Induces apoptosis in human nonsmall cell lung cancer cells.² Displays selective cytotoxic effects on human oral cancer cell lines.³ Inhibits hepatocellular carcinoma cell growth via modulation of the Wnt/ β -catenin pathway.⁴

- 1) Pedras *et al.* (2002), *The destruxins: synthesis, biosynthesis, biotransformation, and biological activity*; *Phytochemistry*, **59** 579
- 2) Wu *et al.* (2013), *Destruxin B Isolated from Entomopathogenic Fungus Metarrhizium anisopliae Induces Apoptosis via a Bcl-2 Family-Dependent Mitochondrial Pathway in Human Nonsmall Cell Lung Cancer Cells*; *Evid. Based Complement. Alternat. Med.*, **2013** 548929
- 3) Liu *et al.* (2014), *Selective apoptotic cell death effects of oral cancer cells treated with destruxin B*; *BMC Complement. Altern. Med.*, **14** 207
- 4) Liu *et al.* (2014), *Destruxin B inhibits hepatocellular carcinoma cell growth through modulation of the Wnt/ β catenin signaling pathway and epithelial-mesenchymal transition*; *Toxicol. In Vitro*, **28** 552

PHYSICAL DATA

| | |
|------------------------|---|
| Molecular Weight: | 593.76 |
| Molecular Formula: | C ₃₀ H ₅₁ N ₅ O ₇ |
| Purity: | 98% by HPLC |
| | NMR: (Conforms) |
| Solubility: | DMSO (up to 10 mg/ml) |
| Physical Description: | White solid |
| Storage and Stability: | Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months. |

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