

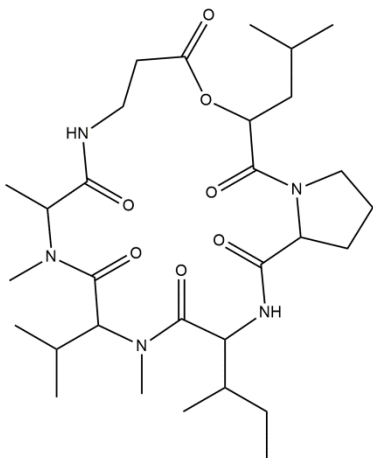
Destruxin B

11/19

ALTERNATE NAMES: 16-butan-2-yl-10,11,14-trimethyl-3-(2-methylpropyl)-13-propan-2-yl-4-oxa-1,8,11,14,17-pentazabicyclo[17.3.0]docosane-2,5,9,12,15,18-hexone; SB 242536; NSC 236580

CATALOG #: B2948-500 500 µg
 B2948-1000 1000 µg

STRUCTURE:



MOLECULAR FORMULA: C₃₀H₅₁N₅O₇

MOLECULAR WEIGHT: 593.80

CAS NUMBER: 2503-26-6

APPEARANCE: Solid

PURITY: ≥96%

SOLUBILITY: 10 mg/ml in DMSO

DESCRIPTION: Destruxin B is a cyclic hexadepsipeptide metabolite from the fungus *Metarhizium anisopliae*. It shows insecticidal and anti-cancer properties. It induces a concentration-dependent antiproliferative effect on lung adenocarcinoma A549 cells, with an IC₅₀ value of 4.9 µM. It induces apoptosis in the human non-small cell lung cancer cells A549 and H1299 cells via a Bcl-2 family-dependent mitochondrial pathway.

STORAGE TEMPERATURE: -20°C. Store in the dark. Product is light sensitive. Protect from air. Store under desiccating conditions.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

REFERENCE: Wu, C.C., Chen, T.H., Liu, B.L., et al. Destruxin B isolated from entomopathogenic fungus *Metarhizium anisopliae* induces apoptosis via a Bcl-2 family-dependent mitochondrial pathway in human non-small cell lung cancer cells. *Evid. Based Complement. Alternat. Med* 2013; 548929 (2013).

RELATED PRODUCTS:

Anomalin A (Cat. No. 2151)
 Beauvericin (Cat. No. B1246)
 Amphotericin B, USP (Cat. No. 2497)
 Sclerotiorin (Cat. No. 2334)
 Destruxin A (Cat. No. B2947)

DISCLAIMER: **FOR RESEARCH USE ONLY! Not to be used on humans.**