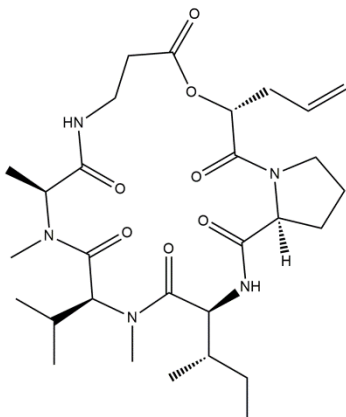


# Destruxin A

**ALTERNATE NAMES:** 3-(butan-2-yl)-5,8,9-trimethyl-6-(propan-2-yl)-16-(prop-2-en-1-yl)dodecahydropyrrolo[1,2-d][1,4,7,10,13,16]oxapentaazacyclonadecine-1,4,7,10,14,17(11h,16h)-hexone; (3S,6S,9S,16R,21aS)-16-Allyl-3-[(2S)-2-butanyl]-6-isopropyl-5,8,9-trimethyldodecahydropyrrolo[1,2-d][1,4,7,10,13,16]oxapentaazacyclonadecine-1,4,7,10,14,17(11H,16H)-hexone; NSC361126

**CATALOG #:** B2947-500 500 µg  
B2947-1000 1000 µg

**STRUCTURE:**



**MOLECULAR FORMULA:** C<sub>29</sub>H<sub>47</sub>N<sub>5</sub>O<sub>7</sub>

**MOLECULAR WEIGHT:** 577.71

**CAS NUMBER:** 6686-70-0

**APPEARANCE:** Solid

**PURITY:** ≥96%

**SOLUBILITY:** 10 mg/ml in DMSO

**DESCRIPTION:** Destruxin A is a cyclic hexadepsipeptide metabolite from the fungus *Metarhizium anisopliae*. Destruxins show insecticidal, anti-viral, and phytotoxic properties. Destruxin A suppresses the *Drosophila* humoral immune response in *Drosophila melanogaster*. It increases peptidoglycan recognition protein (PGRP), prophenoloxidase (proPO) system and affects diverse pathways, including apoptosis, calcium signaling, and development in the larvae of *Plutella xylostella*.

**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.

**REFERENCES:**

- Han, P., Jin, F., Dong, X., et al. Transcript and protein profiling analysis of the Destruxin A-induced response in larvae of *Plutella xylostella*. *PLoS One* 8(4), (2013).
- Pal, S., St.Leger, R.J., and Wu, L.P. Fungal peptide Destruxin A plays a specific role in suppressing the innate immune response in *Drosophila melanogaster*. *J.Biol.Chem.* 282(12), 8969-8977 (2007).

**RELATED PRODUCTS:**

Sclerotiorin (Cat. No. 2334)  
 Beauvericin (Cat. No. B1246)  
 Anomalin A (Cat. No. 2151)  
 Amphotericin B, USP (Cat. No. 2497)  
 Fusidic acid (Cat. No. B2392)

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