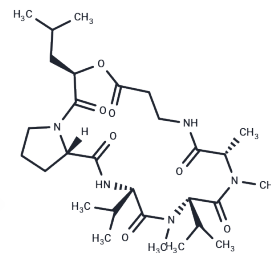


Destruxin B2

Chemical Properties

CAS No. :	79386-00-8
Formula:	C ₂₉ H ₄₉ N ₅ O ₇
Molecular Weight:	579.739
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Destruxin B2 is a cyclic hexadepsipeptide mycotoxin that has been found in <i>M. anisopliae</i> and has antiviral, insecticidal, and phytotoxic activities. ^{1,2,3} It inhibits secretion of hepatitis B virus surface antigen (HBsAg) by Hep3B cells expressing hepatitis B virus (HBV) DNA (IC ₅₀ = 1.3 μM). ¹ Destruxin B2 is toxic to Sf9 insect cells in an electric cell-substrate impedance sensing (ECIS) test with a 50% inhibitory concentration (ECIS ₅₀) value of 92 μM. ⁴ It is also phytotoxic to <i>B. napus</i> leaves. ³
Targets(IC ₅₀)	Others,HBV

Solubility Information

Solubility	DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7249 mL	8.6246 mL	17.2491 mL
5 mM	0.345 mL	1.7249 mL	3.4498 mL
10 mM	0.1725 mL	0.8625 mL	1.7249 mL
50 mM	0.0345 mL	0.1725 mL	0.345 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- Yeh, S.F., Pan, W., Ong, G.-T., et al. Study of structure-activity correlation in destruxins, a class of cyclodepsipeptides possessing suppressive effect on the generation of hepatitis B virus surface antigen in human hepatoma cells. *Biochem. Biophys. Res. Commun.* 229(1), 65-72 (1996).
- Male, K.B., Tzeng, Y.-M., Montes, J., et al. Probing inhibitory effects of destruxins from *Metarhizium anisopliae* using insect cell based impedance spectroscopy: Inhibition vs chemical structure. *Analyst* 134(7), 1447-1452 (2009).
- Buchwaldt, L., and Green, H. Phytotoxicity of destruxin B and its possible role in the pathogenesis of *Alternaria brassicae*. *Plant Pathol.* 41(1), 55-63 (1992).

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