

Product Data Sheet

Product Name: Destruxin B2

Cat. No.: GC46130

Chemical Properties

Cas. No. 79386-00-8

SMILES O=C(N[C@@H](C(C)C)C(N(C)[C@@H](C(C)C)C(N(C)[C@H]1C=O)=O)[C@@]2([H])N(CCC2)C([C@@H](CC(C)C)OC(CCNC1=O)=O)=O

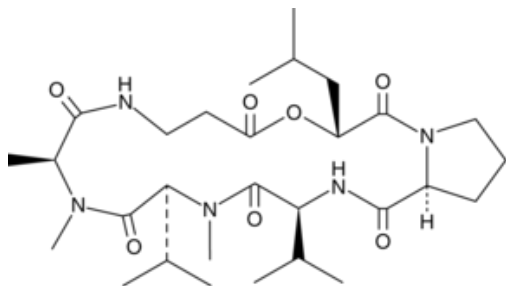
Formula C₂₉H₄₉N₅O₇ M.Wt 579.7

Solubility Soluble in DMSO Storage Store at -20°C

General For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the tips ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Evaluation sample solution : ship with blue ice All other available size: ship with RT, or Condition blue ice upon request.

Structure



Background

Destruxin B2 is a cyclic hexadepsipeptide mycotoxin that has been found in *M. anisopliae* 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 (IC₅₀ = 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 (ECIS₅₀) value of 92 μM.⁴ It is also phytotoxic to *B. napus* leaves.³

[1. 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). 2. 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*

Caution: Product has not been fully validated for medical applications. For research use only.

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134(7), 1447-1452 (2009).|3. 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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