

Product Data Sheet

Product Name: Enniatin B1

Cat. No.: GC43611

Chemical Properties

Cas. No. 19914-20-6

SMILES C[C@@H](CC)[C@]([H])(N(C)C([C@@H](C(C)C)OC([C@H](C(C)C)N(C)C1=O)=O)=O)C(O[C@H](C(C)C)C(N(C)[C@@H](C(C)C)C(O[C@@H]1C(C)C)=O)=O)=O

Formula C₃₄H₅₉N₃O₉

M.Wt 653.9

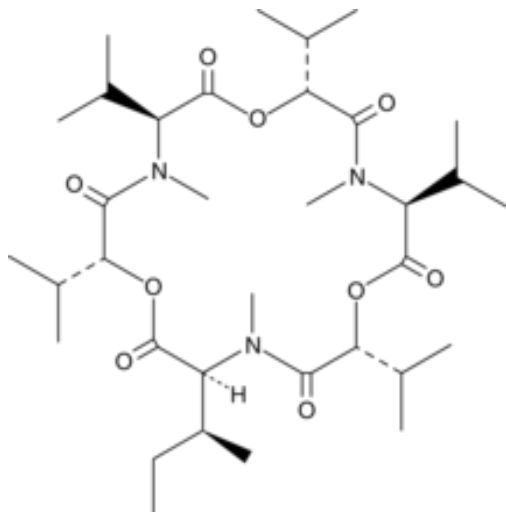
Solubility DMF: Soluble, DMSO: Soluble, Ethanol: Soluble, Methanol: Soluble

Storage Store at -20°C

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

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

Structure



Background

Enniatin B1 is a *Fusarium* mycotoxin. Enniatin B1 inhibits acyl-CoA: cholesterol acyltransferase (ACAT) activity with an IC₅₀ of 73 μM in an enzyme assay using rat liver microsomes[1]. Enniatin B1 crosses the blood-brain barrier[2]. Enniatin B1 decreases the activation of ERK (p44/p42). Enniatin B1 inhibits moderately TNF-α-induced NF-κB activation[3].

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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CCF-STTG1 cells are sensitive to Enniatin B1 (IC₅₀=4.4 µM)[2].

References:

- [1]. Tomoda H, et al. Inhibition of acyl-CoA: cholesterol acyltransferase activity by cyclodepsipeptide antibiotics. J Antibiot (Tokyo). 1992 Oct;45(10):1626-32.
- [2]. Krug I, et al. Transport of enniatin B and enniatin B1 across the blood-brain barrier and hints for neurotoxic effects in cerebral cells. PLoS One. 2018 May 16;13(5):e0197406.
- [3]. Wätjen W, et al. Enniatins A1, B and B1 from an endophytic strain of *Fusarium tricinctum* induce apoptotic cell death in H4IIE hepatoma cells accompanied by inhibition of ERK phosphorylation. Mol Nutr Food Res. 2009 Apr;53(4):431-40.

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