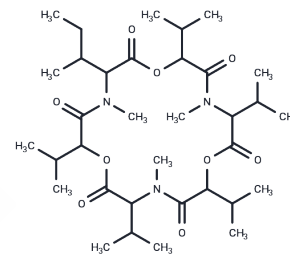


Enniatin B1

Chemical Properties

CAS No. :	19914-20-6
Formula:	C ₃₄ H ₅₉ N ₃ O ₉
Molecular Weight:	653.858
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	Enniatin B1, a Fusarium mycotoxin, crosses the blood-brain barrier, decreases the activation of ERK (p44/p42), and inhibits moderately TNF- α -induced NF- κ B activation. Furthermore, it inhibits acyl-CoA: cholesterol acyltransferase (ACAT) activity, exhibiting an IC ₅₀ of 73 μ M in rat liver microsome enzyme assays.
Targets(IC ₅₀)	ERK,NF- κ B,Acyltransferase
In vitro	CCF-STTG1 cells exhibit sensitivity to Enniatin B1 [IC ₅₀ = 4.4 μ M].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5294 mL	7.6469 mL	15.2938 mL
5 mM	0.3059 mL	1.5294 mL	3.0588 mL
10 mM	0.1529 mL	0.7647 mL	1.5294 mL
50 mM	0.0306 mL	0.1529 mL	0.3059 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

Tomoda H, et al. Inhibition of acyl-CoA: cholesterol acyltransferase activity by cyclodepsipeptide antibiotics. *J Antibiot (Tokyo)*. 1992 Oct;45(10):1626-32.

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.

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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