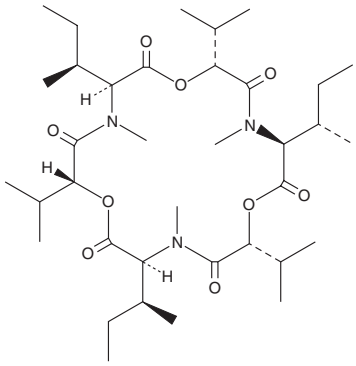
PRODUCT INFORMATION

Enniatin A

Item No. 17456



CAS Registry No.:	2503-13-1
Formal Name:	cyclo[(2R)-2-hydroxy-3-methylbutanoyl-N-methyl-L-isoleucyl-(2R)-2-hydroxy-3-methylbutanoyl-N-methyl-L-isoleucyl-(2R)-2-hydroxy-3-methylbutanoyl-N-methyl-L-isoleucyl]
MF:	$C_{36}H_{63}N_3O_9$
FW:	681.9
Purity:	≥99%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years
Item Origin:	Fungus/*Fusarium* sp.

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Enniatin A is supplied as a solid. A stock solution may be made by dissolving the enniatin A in the solvent of choice. Enniatin A is soluble in organic solvents such as ethanol, methanol, DMSO, and dimethyl formamide, which should be purged with an inert gas.

Description

Enniatins are cyclohexadepsipeptides commonly isolated from fungi that are known to have antibiotic properties and to induce apoptosis in several cancer lines.[1] Many function as ionophores, forming pores in cellular membranes to allow selective ion transport.[1,2] Enniatin A is one of four major analogs in the enniatin complex (Item No. 9002040). It has been shown to moderately inhibit acyl-CoA:cholesterol acyltranferase activity in rat liver microsomes with an IC_{50} value of 22 µM.[3] Enniatin A also demonstrates anthelmintic properties against *N. brasiliensis*, *T. spiralis*, and *H. spumosa*.[1]

References

1. Sy-Cordero, A.A., Pearce, C.J., and Oberlies, N.H. Revisiting the enniatins: A review of their isolation, biosynthesis, structure determination and biological activities. *J. Antibiot. (Tokyo)* **65(11)**, 541-549 (2012).
2. Kamyar, M.R., Rawnduzi, P., Studenik, C.R., *et al.* Investigation of the electrophysiological properties of enniatins. *Arch. Biochem. Biophys.* **429(2)**, 215-223 (2004).
3. Tomoda, H., Huang, X.H., Cao, J., *et al.* Inhibition of acyl-CoA: Cholesterol acyltransferase activity by cyclodepsipeptide antibiotics. *J. Antibiot. (Tokyo)* **45(10)**, 1626-1632 (1992).

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM