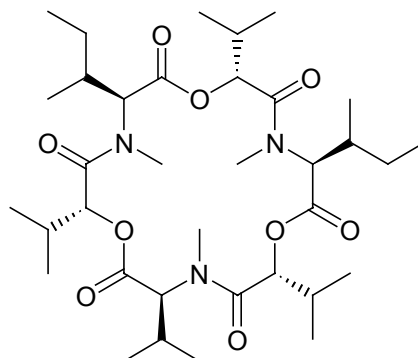


Enniatin A1

Code: BIA-E1166

Pack sizes: 1 mg, 5 mg



Synonyms : 2-(N-Methyl-L-valine) enniatin A

Specifications

CAS # : 4530-21-6
Molecular Formula : C₃₅H₆₁N₃O₉
Molecular Weight : 667.9
Source : *Fusarium* sp. MST-FP1765
Appearance : White powder
Purity : >99% by HPLC
Long Term Storage : +4°C
Solubility : Soluble in ethanol, methanol, DMF or DMSO.

Application Notes

Enniatins are a family of depsipeptides produced several *Fusarium* species. The enniatins have been shown to act as ionophores. More recently their effects on acyl-CoA cholesterol transferase, transporters and the selectivity of their antitumor action have received more focus. Enniatin A1 is one of four major analogues of the enniatin complex and has previously not been available for investigation.

References

1. Ionophore antibiotics produced by the fungus *Fusarium orthoceras* var. *enniatum* and other Fusaria. Gaumann E. et al., *Experientia* **1947**, 3, 202.
2. "Sandwich" complexation in cyclopeptides and its implications in membrane processes. Ivanov V.T. *Ann. N. Y. Acad. Sci.* **1975**, 264, 221.
3. Interaction of cyclic peptides and depsipeptides with calmodulin. Mereish K.A. et al., *Pept. Res.* **1990**, 3, 233.
4. Enniatin has a new function as an inhibitor of Pdr5p, one of the ABC transporters in *Saccharomyces cerevisiae*. Hiraga K. et al., *Biochem. Biophys. Res. Commun.* **2005**, 328, 1119.
5. Enniatin exerts p53-dependent cytostatic and p53-independent cytotoxic activities against human cancer cells. Dornetshuber R. et al., *Chem. Res. Toxicol.* **2007**, 20, 465.