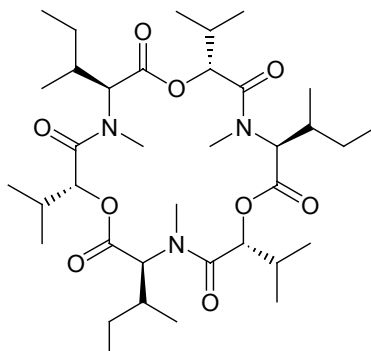


Enniatin A

Code: **BIA-E1165**

Pack sizes: **0.5 mg, 2.5 mg**



Synonyms : **Lateritin I**

Specifications

CAS # : **2503-13-1**

Molecular Formula : **C₃₆H₆₃N₃O₉**

Molecular Weight : **681.9**

Source : ***Fusarium* sp. MST-FP1765**

Appearance : **Colourless solid**

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 A 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.