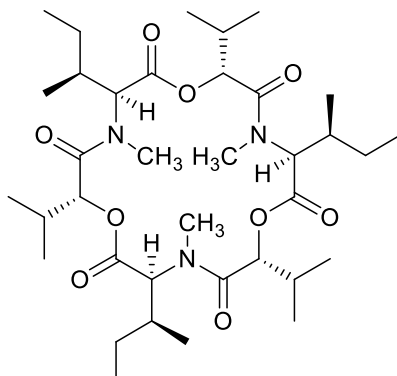


## Enniatin A

Code No.: **BIA-E1165**

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



Synonyms : Lateritin I

## Specifications

CAS #	: 2503-13-1
Molecular Formula	: <b>C<sub>36</sub>H<sub>63</sub>N<sub>3</sub>O<sub>9</sub></b>
Molecular Weight	: <b>681.9</b>
Source	: <b><i>Fusarium</i> sp.</b>
Appearance	: <b>Colourless solid</b>
Purity	: <b>&gt;95% by HPLC</b>
Long Term Storage	: <b>-20°C</b>
Solubility	: <b>Soluble in ethanol, methanol, DMF or DMSO. Poor water solubility.</b>

## Application Notes

Enniatins are a family of depsipeptide ionophores, produced by several *Fusarium* species. Recently, the effects of the enniatins 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.

## 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.