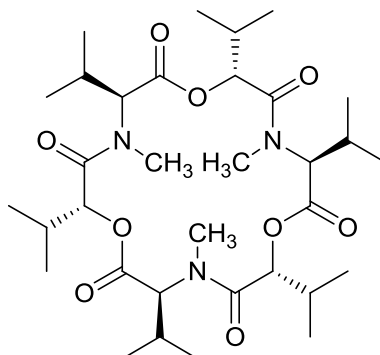


## Enniatin B

Code No.: **BIA-E1167**

Pack sizes: **1 mg, 5 mg**



Synonyms :

### Specifications

CAS #	: 917-13-5
Molecular Formula	: $C_{33}H_{57}N_3O_9$
Molecular Weight	: 639.8
Source	: <i>Fusarium sp.</i>
Appearance	: <b>White powder</b>
Purity	: <b>&gt;99% 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 B is the most studied 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.