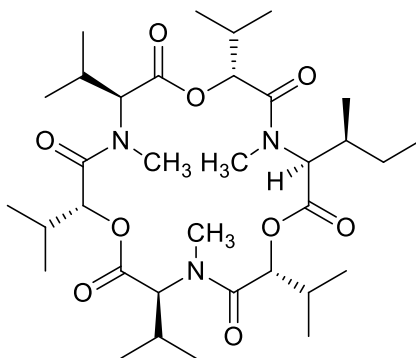


Enniatin B1

Code No.: **BIA-E1168**

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



Synonyms : 2-(N-Methyl-L-isoleucine)enniatin B

Specifications

CAS #	: 19914-20-6
Molecular Formula	: C ₃₄ H ₅₉ N ₃ O ₉
Molecular Weight	: 653.9
Source	: <i>Fusarium</i> sp.
Appearance	: White powder
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Poor water solubility.

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 B1 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.