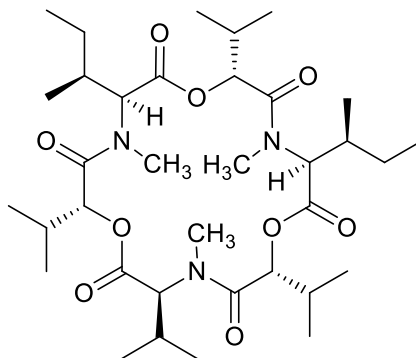


Enniatin A1

Code No.: **BIA-E1166**

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



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

Specifications

CAS #	: 4530-21-6
Molecular Formula	: C ₃₅ H ₆₁ N ₃ O ₉
Molecular Weight	: 667.9
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 A1 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.