

Product Information

Enniatin B1 from *Gnomonia errabuda*

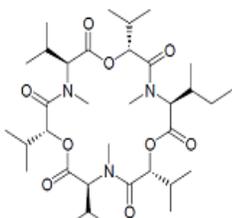
Catalog Number **E5286**
Storage Temperature $-20\text{ }^{\circ}\text{C}$

CAS RN 19914-20-6

Product Description

Molecular formula: $\text{C}_{34}\text{H}_{59}\text{N}_3\text{O}_9$

Molecular weight: 653.85



Enniatins are a group of cyclohexadepsipeptide mycotoxins produced by *Gnomonia errabuda* and several *Fusaria* species, with phytotoxic, antibiotic, and insecticidal activities.¹⁻⁴ Enniatins function as ionophores by their incorporation into the cellular membrane to form dimeric structures. They transport monovalent ions across the membrane, especially the mitochondrial membranes, affecting oxidative phosphorylation uncoupling.⁵⁻⁸ It has been demonstrated enniatins have a cytotoxic effect on human cancer cells.⁹ Furthermore, incubation of H4IIE hepatoma cells with enniatins strongly diminished phosphorylation of ERK (p44/p42).¹⁰ Enniatins B and B1 were found to inhibit the multi-drug resistance transporter Pdr5p from *Saccharomyces cerevisiae*,¹¹ indicating their beneficial potential in cases of drug resistant patients.

Purity: $\geq 95\%$ (HPLC)

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Preparation Instructions

Soluble at 10 mg/mL in DMSO, methanol, and ethanol.

Storage/Stability

Store the product sealed at $-20\text{ }^{\circ}\text{C}$. Under these conditions the product is stable for at least 2 years.

References

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