Enniatin B1 from *Gnomonia errabuda*

Catalog Number E5286
Storage Temperature –20 °C

CAS RN 19914-20-6

**Product Description**
Molecular formula: C$_{34}$H$_{59}$N$_3$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. 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. It has been demonstrated enniatins have a cytotoxic effect on human cancer cells. Furthermore, incubation of H4IIE hepatoma cells with enniatins strongly diminished phosphorylation of ERK (p44/p42). Enniatins B and B1 were found to inhibit the multi-drug resistance transporter Pdr5p from *Saccharomyces cerevisiae*, indicating their beneficial potential in cases of drug resistant patients.

Purity: ≥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 °C. Under these conditions the product is stable for at least 2 years.

**References**

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