Enniatin A1 from *Gnomonia errabuda*

Catalog Number E5161
Storage Temperature –20 °C

CAS RN 4530-21-6

**Product Description**
Molecular formula: C\(_{35}\)H\(_{61}\)N\(_3\)O\(_9\)
Molecular weight: 667.87

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).

**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**