Induces apoptosis in A549 cancer cells.\(^1\) Disrupts mitochondrial volume regulation.\(^2\) Antifungal activity acting via inhibition of both multidrug efflux and TORC1 kinase.\(^3\) Crosses the blood-brain barrier in mice.\(^4\) Inhibits HIV-1 integrase.\(^5\)

1) Lu et al. (2016), Beauvericin-induced cell apoptosis through the mitogen-activated protein kinase pathway in human nonsmall cell lung cancer A549 cells.; J. Toxicol. Sci., 41 429
2) Tonshin et al. (2010), The Fusarium mycotoxins enniatins and beauvericin cause mitochondrial dysfunction by affecting the mitochondrial volume regulation, oxidative phosphorylation and ion homeostasis.; Toxicology, 276 49
3) Shekhar-Guturja et al. (2016), Dual action antifungal small molecule modulates multidrug efflux and TOR signaling; Nat. Chem. Biol., 12 867
4) Taevernier et al. (2016), Blood-brain barrier transport kinetics of the cyclic depsipeptide mycotoxins beauvericin and enniatins; Toxicol. Lett., 258 175
5) Shin et al. (2009), Beauvericin and enniatins H,I and MK1688 are new potent inhibitors of human immunodeficiency virus type-1 integrase; J. Antibiot. (Tokyo), 62 687

**PHYSICAL DATA**

- Molecular Weight: 783.95
- Molecular Formula: C\(_{45}\)H\(_{57}\)N\(_3\)O\(_9\)
- Purity: 98% by HPLC
- NMR: (Conforms)
- Solubility: Soluble in DMSO (up to 30 mg/ml)
- Physical Description: White solid
- Storage and Stability: Store as supplied, desiccated at -20°C for up to 1 year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.