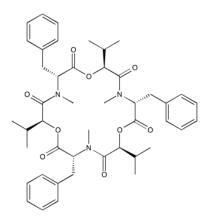


Catalog # 10-2061 Beauvericin

CAS# 26048-05-5

Cyclo[(2R)-2-hydroxy-3-methylbutanoyl-N-methyl-L-phenylalanyl-(2R)-2-hydroxy-3-methylbutanoyl-N-methyl-L-phenylalanyl-(2R)-2-hydroxy-3-methylbutanoyl-N-methyl-L-phenylalanyl]

Lot # X101832



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:	C45H57N3O9
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.

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