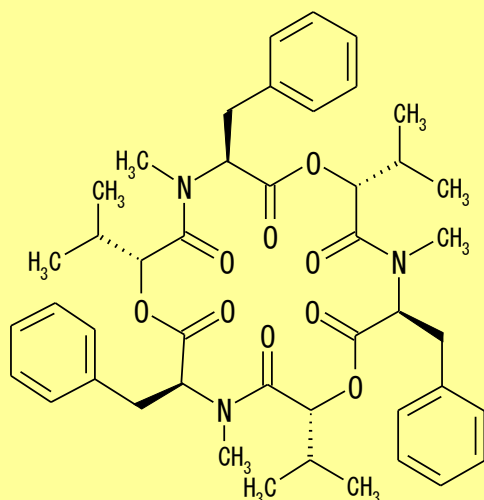


# Beauvericin

Cat.# BLK0370

## Structure



**Origin:** *Beauveria* sp.

**CAS#:** 26048-05-5

**CA Index Name:** N-Methylcyclo(L-Phe-D-Hmb-N-methyl-L-Phe-D-Hmb-N-methyl-L-Phe-D-Hmb-)

**Appearance:** white solid

**Molecular Formula/ Weight:** C<sub>45</sub>H<sub>57</sub>N<sub>3</sub>O<sub>9</sub>=783.96

**Melting Point:** 95-97°C | **Purity:** 95% by HPLC

**Solubility:** Sol. 1mg/ml ethanol, methanol, DMSO

**pKa:**

**log P:** 5.49

### Background Information:

Beauvericin is a toxic depsipeptide with antibiotic and insecticidal effects belonging to the enniatin family. It was isolated from the fungus *Beauveria bassiana*<sup>1)</sup> and *Fusarium* sp.<sup>2)</sup> Beauvericin is active against Gram-positive bacteria and mycobacteria, and is also capable of inducing programmed cell death in mammals.<sup>2)</sup> Its ion-complexing capability allows beauvericin to transport alkaline earth metal and alkali metal ions across cell membranes.

### Handling and Storage:

Store at -20°C.

### References:

1. F. R. Champlin & E. A. Gula, *Appl. Environ. Microbiol.*, **37**, 1122-1126 (1979).
2. A. Logrieco, et. al., *Appl. Environ. Microbiol.*, **64**, 3084-3088 (1998).
3. T. Fukuda et al., *J. Antibiot.*, **57**, 110 (2004).
4. T. Fukuda et al., *J. Antibiot.*, **57**, 117 (2004).
5. Alogrieco et al., *J. Appl. Environ. Microbiol.*, 3084 (1998).
6. C.Nilanonta et al., **58**, 3355 (2002).

*Manufactured with Cortesy strain from The Kitasato Institute.*