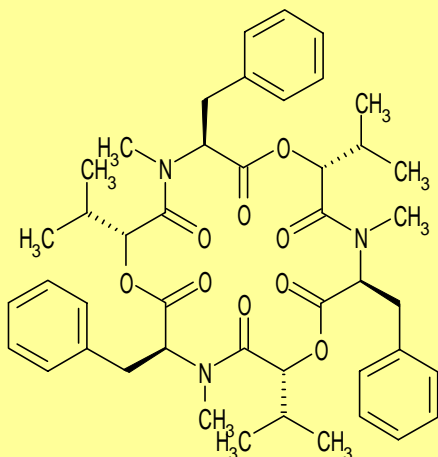


Beauvericin

Cat.# BLK0370

Structure



Origin: *Beauveria* sp. FKI-1366

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: C₄₅H₅₇N₃O₉=783.96

Melting Point: 95-97 **Purity:** 95% by HPLC

Solubility: Sol. MeOH, Diethyl Ether, MeOH, Chloroform
Inso. Water, Hexane

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*¹⁾ and *Fusarium* sp.²⁾ Beauvericin is active against Gram-positive bacteria and mycobacteria, and is also capable of inducing programmed cell death in mammals.²⁾ 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. Grula, *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).