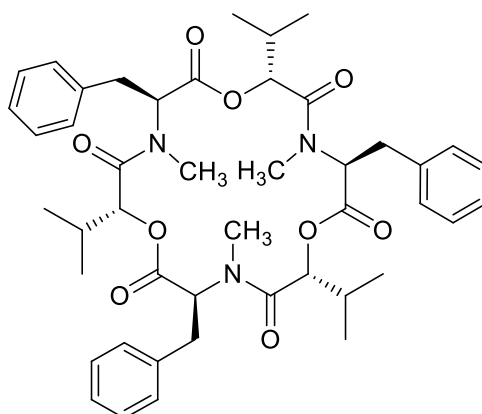


## Beauvericin

Code No.: **BIA-B1238**

Pack sizes: **5 mg, 25 mg**



Synonyms :

### Specifications

CAS #	: <b>26048-05-5</b>
Molecular Formula	: <b>C<sub>45</sub>H<sub>57</sub>N<sub>3</sub>O<sub>9</sub></b>
Molecular Weight	: <b>784</b>
Source	: <b><i>Beauveria bassiana</i></b>
Appearance	: <b>White powder</b>
Purity	: <b>&gt;95% by HPLC</b>
Long Term Storage	: <b>-20°C</b>
Solubility	: <b>Soluble in ethanol, methanol, DMF or DMSO. Poor water solubility.</b>

### Application Notes

Beauvericin is a cyclic depsipeptide isolated from several fungal genera, notably *Beauveria* and *Fusarium*, first reported in 1969. Beauvericin exhibits broad antifungal, antibacterial, antiprotozoan and insecticidal activities. At the molecular level, beauvericin exhibits ionophore properties, and inhibits acyl-CoA:cholesterol acyltransferase activity. Beauvericin induces apoptosis by elevating intracellular calcium levels.

### References

1. The structure of beauvericin, a new depsipeptide antibiotic toxic to *Artemia salina*. Hamill Z. R. L. et al., Tet. Letters 1969, 4255.
2. Inhibition of acyl-CoA:cholesterol acyltransferase activity by cyclodepsipeptide antibiotics. Tomoda H. et al., J. Antibiot. 1992, 45, 1626.
3. Beauvericin Production by *Fusarium* Species. Logrieco A. et al., Appl. Environ. Microbiol. 1998, 64, 3084.