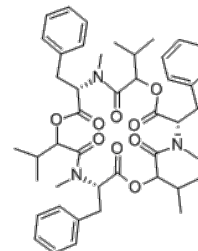


Product Name : Beauvericin
Cat. No. : PC-61930
CAS No. : 26048-05-5
Molecular Formula : C₄₅H₅₇N₃O₉
Molecular Weight : 784
Target : Bacterial
Solubility : 10 mM in DMSO



Biological Activity

Beauvericin is a cyclic hexadepsipeptide with **antibiotic** and insecticidal effects, shows activity against Gram-positive bacteria and mycobacteria, and is also capable of inducing programmed cell death in mammals.

Beauvericin causes cellular genotoxicity by producing DNA breaks, chromosomal aberrations and micronuclei, and inhibits the **PI3K/AKT** pathway to induce apoptosis, thereby inhibiting the growth of HCC.

Beauvericin affects immune function by inhibiting lymphocyte proliferation and interfering with the differentiation process of human monocytes into macrophages.

References

Logrieco A, et al. *Appl Environ Microbiol.* 1998 Aug;64(8):3084-8.

Tonshin AA, et al. *Toxicology.* 2010 Sep 30;276(1):49-57.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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