Beauvericin

Product Number B7510
Storage Temperature 2-8 °C

Product Description
Molecular Formula: C_{45}H_{57}N_{3}O_{9}
Molecular Weight: 784.0
CAS Number: 26048-05-5
Melting Point: 93-94 °C, 147-148 °C
Specific Rotation: +69.0° (benzene)

Beauvericin is an antibiotic that occurs naturally in the fungus *Beauveria bassiana*. It is a member of the enniatin family of antibiotics and has activity against Gram-positive bacteria and mycobacteria, as well as against insects and brine shrimp. Beauvericin is a cyclic hexadepsipeptide with alternating L-N-methylphenylalanyl and D-α-hydroxyisovaleryl residues. Its ion-complexing capability allows beauvericin to transport alkaline earth metal and alkali metal ions across cell membranes. A detailed review of beauvericin and other enniatins has been published. The production of beauvericin and other mycotoxins by several *Fusarium* species has been studied by HPLC.

Beauvericin has been shown to cause channel formation in patches of ventricular myocytes and synthetic membranes. The cytotoxic effects of beauvericin (100-300 μM) on the human myeloid cell lines U-937 and HL-60 has been studied. Beauvericin (0.3-100 μM) has been shown to inhibit L-type voltage-dependent Ca^{2+} current in the mouse neuroblastoma and rat glioma hybrid cell line NG108-15.

Precautions and Disclaimer
For Laboratory Use Only. Not for drug, household or other uses.

Preparation Instructions
This product is soluble in acetonitrile (1 mg/ml).
It is also soluble in methanol (1 mg/ml).

References