

<b>Product Name:</b>	Beauvericin
<b>Product Number:</b>	B045
<b>CAS Number:</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>	783.0
<b>Appearance:</b>	White powder
<b>Storage Conditions:</b>	-20°C
<b>Description:</b>	<p>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.</p> <p>Beauvericin is soluble in ethanol, methanol, DMF and DMSO.</p>
<b>Mechanism of Action:</b>	<p>At the molecular level, beauvericin exhibits ionophore properties, and inhibits acyl-CoA:cholesterol acyltransferase activity. Beauvericin induces apoptosis by elevating intracellular calcium levels.</p>
<b>References:</b>	<p>The structure of beauvericin, a new depsipeptide antibiotic toxic to Artemia salina. Hamill Z. R. L. et al. Tet. Letters 1969, 4255.</p> <p>Inhibition of acyl-CoA:cholesterol acyltransferase activity by cyclodepsipeptide antibiotics. Tomoda H. et al. J. Antibiot. 1992, 45, 1626.</p> <p>Beauvericin Production by Fusarium Species. Logrieco A. et al. Appl. Environ. Microbiol. 1998, 64, 3084.</p>