

<b>Product Name:</b>	Alamethicin F50
<b>Product Number:</b>	A119
<b>CAS Number:</b>	56165-93-6
<b>Molecular Formula:</b>	$C_{92}H_{151}N_{23}O_{24}$
<b>Molecular Weight:</b>	1963.4
<b>Appearance:</b>	Off-white solid
<b>Storage Conditions:</b>	-20°C
<b>Description:</b>	<p>Alamethicin F50 is a neutral linear peptaibol complex with potent antibiotic activity, containing 20 "amino acids" with acetyl and phenylalaninol termini, produced by <i>Trichoderma</i> sp.. Alamethicin F50 is co-produced with an acidic linear peptaibol complex (alamethicin F30). Alamethicin itself is a variable mixture of the acidic and neutral components. In general, reports on alamethicin do not specify the ratio of F50 to F30 in the complex and comparative data between the complexes is scant.</p> <p>Alamethicin F50 is soluble in ethanol, methanol, DMF and DMSO.</p>
<b>Mechanism of Action:</b>	<p>Alamethicin F50 acts as an ionophore, transporting ions through membranes and artificial lipid membranes. Alamethicin F50 forms voltage-dependent ion channels in lipid bilayer membranes.</p>
<b>References:</b>	<p>A polypeptide antibacterial agent isolated from <i>Trichoderma viride</i>. Meyer C.E. &amp; Reusser F. <i>Experientia</i> 1967, 23, 85.</p> <p>Chemical nature and sequence of alamethicin. Martin D.R. &amp; Williams R.J.P. <i>Biochem. J.</i> 1976, 153, 181.</p> <p>Alamethicin adsorption to a planar lipid bilayer. Vodyanoy I. et al. <i>Bioophys J.</i> 1988, 53, 649.</p> <p>Sequences of alamethicins F30 and F50 reconsidered and reconciled. Kirschbaum J. <i>Peptide Sci.</i> 2003, 9, 799.</p>