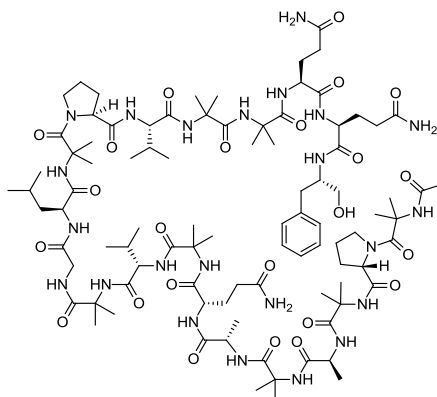


Alamethicin F50

Code No.: **BIA-A1543**

Pack sizes: **2.5 mg, 10 mg**



Synonyms : Alamethicin F, Alamethicin Rf 50, Atroviridin A, 18-L-Glutamine-alamethicin I

Specifications

CAS #	: 56165-93-6
Molecular Formula	: C₉₂H₁₅₁N₂₃O₂₄
Molecular Weight	: 1963.4
Source	: <i>Trichoderma viride</i>
Appearance	: Off-white solid
Purity	: >98% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Poor water solubility.

Application Notes

Alamethicin F50 is a neutral linear peptaibol complex with potent antibiotic activity, containing 20 "amino acids" with acetyl and phenylalaninol termini, produced by *Trichoderma* sp. 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. 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.

References

1. A polypeptide antibacterial agent isolated from *Trichoderma viride*. Meyer C.E. & Reusser F. *Experientia* 1967, 23, 85.
2. Chemical nature and sequence of alamethicin. Martin D.R. & Williams R.J.P. *Biochem. J.* 1976, 153, 181.
3. Alamethicin adsorption to a planar lipid bilayer. Vodyanoy I. et al., *Bioophys J.* 1988, 53, 649.
4. Sequences of alamethicins F30 and F50 reconsidered and reconciled. Kirschbaum J. *Peptide Sci.* 2003, 9, 799.