PRODUCT DATA SHEET

Alamethicin F30

Code No.: BIA-A1216
Pack sizes: 2.5 mg, 10 mg

Synonyms: Peptaibol complex. Additional synonyms for the major component, alamethicin I:
Alamethicin F30, Alamethicin-gamma, U 22324

Specifications

CAS # : 27061-78-5
Molecular Formula : C_{92}H_{150}N_{22}O_{25}
Molecular Weight : 1964.3
Source : Trichoderma viride
Appearance : White to 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 F30 is an acidic linear peptaibol complex with potent antibiotic activity, containing 20 "amino acids", with acetyl and phenylalaninol termini, produced by Trichoderma sp.. Alamethicin F30 acts an ionophore, transporting ions through membranes and artificial lipid membranes and forming voltage-dependent ion channels in lipid bilayer membranes. Alamethicin F30 is co-produced with a parallel, neutral, linear peptaibol complex (alamethicin F50). The relative composition of alamethicin is a variable mixture of the acidic and neutral complexes, but reports on alamethacin do not generally specify the ratio of F50 to F30, and comparative data between the complexes is scant.

References


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