



LKT Laboratories, Inc.

Alamethicin

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Product Information

Product ID A4400
CAS No. 27061-78-5
Chemical Name

Ac-Aib-Pro-Aib-Ala-Aib-Ala-
Gln-Aib-Val-Aib-Gly-Leu-Aib-
Pro-Val-Aib-Aib-Glu-Gln-Phl

Aib=2-aminoisobutyric acid

Synonym

Formula C_{12}H_{15}N_2O_5
Formula Wt. 1964.4
Melting Point 255-270°C
Purity ≥95%
Solubility DMSO, Methanol (20
mg/ml), Ethanol (100
mg/ml)

Bulk quantities available upon request

Product ID	Size
A4400	1 mg
A4400	5 mg

Store Temp 4°C

Ship Temp Ambient

Description Alamethicin is a peptabiol peptide initially produced by species of *Trichoderma*. Alamethicin is an antimicrobial peptide (AMP) that disturbs the lipid layer of the cell membrane, aggregating and forming pores and causing cell lysis.

References Krauson AJ, He J, Wimley WC. Determining the mechanism of membrane permeabilizing peptides: identification of potent, equilibrium pore-formers. *Biochim Biophys Acta*. 2012 Jul;1818(7):1625-32. PMID: 22365969.

Huang HW. Molecular mechanism of antimicrobial peptides: the origin of cooperativity. *Biochim Biophys Acta*. 2006 Sep;1758(9):1292-302. PMID: 16542637.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.