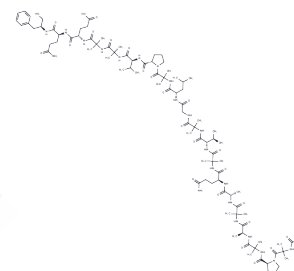


## Alamethicin

## Chemical Properties

|                   |  |
|-------------------|--|
| CAS No. :         | 27061-78-5   |
| Formula:          | C92H150N22O25  |
| Molecular Weight: | 1964.31  |
| Storage:          | Store at low temperature<br>Powder: -20°C for 3 years   In solvent: -80°C for 1 year<br><small>Actual storage temperature shall be subject to the COA.</small> |



## Biological Description

|               |  |
|---------------|--|
| Description   | Alamethicin is a channel-forming antibiotic peptide isolated from <i>Trichoderma viride</i> with potential antimicrobial activity, inhibits methanogenesis and promotes acetogenesis in bioelectrochemical systems. alpha-Amanitin (BI-9627) is a channel-forming antibiotic peptide isolated from <i>Trichoderma viride</i> . |
| Targets(IC50) | Antibacterial, Antibiotic  |

## Preparing Stock Solutions

|       | 1mg       | 5mg       | 10mg      |
|-------|-----------|-----------|-----------|
| 1 mM  | 0.5091 mL | 2.5454 mL | 5.0908 mL |
| 5 mM  | 0.1018 mL | 0.5091 mL | 1.0182 mL |
| 10 mM | 0.0509 mL | 0.2545 mL | 0.5091 mL |
| 50 mM | 0.0102 mL | 0.0509 mL | 0.1018 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

## Reference

Rindfleisch H, et al. Biosynthesis of alamethicin. FEBS Lett. 1976 Mar 1;62(3):276-80.

Olga S.Ostroumova, et al. Chapter Six - Modifiers of Membrane Dipole Potentials as Tools for Investigating Ion Channel Formation and Functioning. International Review of Cell and Molecular Biology Volume 315, 2015, Pages 245-297.

Sansom MS, Tieleman DP, Berendsen HJ. The mechanism of channel formation by alamethicin as viewed by molecular dynamics simulations. Novartis Found Symp. 1999;225:128-41; discussion 141-5.

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