

## Apidaecin IB acetate

### Chemical Properties

CAS No. :

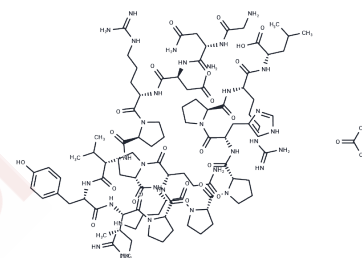
Formula: C97H154N32O25

Molecular Weight: 2168.46

Keep away from moisture

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



### Biological Description

Description	Apidaecin IB acetate is an insect antibacterial peptide. The minimum concentration of apidaecin IB acetate against Escherichia coli (E. coli ML35, o18k1h7 and ATCC 25922) is 8 $\mu$ M.
Targets(IC50)	Others

### Solubility Information

Solubility	DMSO: 60 mg/mL (27.67 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.4612 mL	2.3058 mL	4.6116 mL
5 mM	0.0922 mL	0.4612 mL	0.9223 mL
10 mM	0.0461 mL	0.2306 mL	0.4612 mL
50 mM	0.0092 mL	0.0461 mL	0.0922 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

Gobbo M, et al. Substitution of the arginine/leucine residues in apidaecin Ib with peptoid residues: effect on antimicrobial activity, cellular uptake, and proteolytic degradation. J Med Chem. 2009 Aug 27;52(16):5197-206.

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