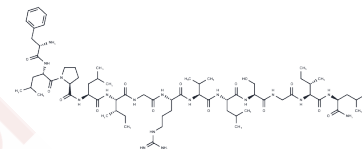


Temporin A

Chemical Properties

CAS No. :	188713-69-1
Formula:	C ₆₈ H ₁₁₇ N ₁₇ O ₁₄
Molecular Weight:	1396.789
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Temporin A, a short alpha-helical antimicrobial peptide derived from the skin of <i>Rana temporaria</i> , exhibits a wide-ranging efficacy against Gram-positive bacteria. It directly interacts with the cell membrane of microorganisms and remains non-toxic to erythrocytes at antimicrobial concentrations. Additionally, Temporin A demonstrates antifungal properties against yeast-like <i>Candida albicans</i> .
Targets(IC50)	Antibacterial, Antibiotic, Antifungal
In vitro	Temporin A (TA), a small, basic, highly hydrophobic antimicrobial peptide amide (FLPLIGRVLSGIL-NH ₂) derived from the skin of the European red frog, <i>Rana temporaria</i> , exhibits a broad spectrum of antibiotic activities. These activities are effective against a wide range of microorganisms, including both Methicillin-sensitive and -resistant <i>Staphylococcus aureus</i> , along with Vancomycin-resistant <i>Enterococcus faecium</i> strains [2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.7159 mL	3.5796 mL	7.1593 mL
5 mM	0.1432 mL	0.7159 mL	1.4319 mL
10 mM	0.0716 mL	0.358 mL	0.7159 mL
50 mM	0.0143 mL	0.0716 mL	0.1432 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

Mäntylä T, Sirola H, Kansanen E, et al. Effect of temporin A modifications on its cytotoxicity and antimicrobial activity. *APMIS*. 2005;113(7-8):497-505.

Wade D, et al. Antibacterial activities of temporin A analogs. *FEBS Lett*. 2000;479(1-2):6-9.

Kamysz W, et al. Temporin A and its retro-analogues: synthesis, conformational analysis and antimicrobial activities. *J Pept Sci*. 2006;12(8):533-537.

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