

Temporin A

Cat. No.:	HY-P1629
CAS No.:	188713-69-1
Molecular Formula:	C ₆₈ H ₁₁₇ N ₁₇ O ₁₄
Molecular Weight:	1396.76
Sequence Shortening:	FLPLIGRVLSGIL-NH2
Target:	Antibiotic; Bacterial; Fungal
Pathway:	Anti-infection
Storage:	Sealed storage, away from moisture and light, under nitrogen Powder -80°C 2 years -20°C 1 year * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light, under nitrogen)

BIOLOGICAL ACTIVITY

Description	Temporin A is a short alpha-helical antimicrobial peptide isolated from the skin of the frog <i>Rana temporaria</i> . Temporin A is effective against a broad spectrum of Gram-positive bacteria. Temporin A interacts directly with the cell membrane of the microorganism and it is non-toxic to erythrocytes at concentrations that are antimicrobial. Temporin A also has antifungal activities (against yeast-like <i>Candida albicans</i>) ^{[1][1][3]} .
In Vitro	Temporin A (TA) is a small, basic, highly hydrophobic, antimicrobial peptide amide (FLPLIGRVLSGIL-NH2) found in the skin of the European red frog, <i>Rana temporaria</i> . It has variable antibiotic activities against a broad spectrum of microorganisms, including clinically important Methicillin-sensitive and -resistant <i>Staphylococcus aureus</i> as well as Vancomycin-resistant <i>Enterococcus faecium</i> strains ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. 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.
- [2]. Wade D, et al. Antibacterial activities of temporin A analogs. *FEBS Lett*. 2000;479(1-2):6-9.
- [3]. Kamysz W, et al. Temporin A and its retro-analogues: synthesis, conformational analysis and antimicrobial activities. *J Pept Sci*. 2006;12(8):533-537.

Caution: Product has not been fully validated for medical applications. For research use only.

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