
Product Data Sheet

Product Name: Temporin A

Cat. No.: GC70009

Chemical Properties

Cas. No. 188713-69-1

Formula $C_{68}H_{117}N_{17}O_{14}$ M.Wt 1396.76

Solubility Storage Store at -20°C, protect from light, under nitrogen

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure

Background

Temporin A is a short alpha-helical **antimicrobial** peptide isolated from the skin of the frog *Rana temporaria*. 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 *Candida albicans*)^{[1][1][3]}.

Temporin A (TA) is a small, basic, highly hydrophobic, antimicrobial peptide amide (FLPLIGRVLSGIL-NH₂) found in the skin of the European red frog, *Rana temporaria*. It has variable antibiotic activities against a broad spectrum of microorganisms, including clinically important Methicillin-sensitive and -resistant *Staphylococcus aureus* as well as Vancomycin-resistant *Enterococcus faecium* strains^[2].

[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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