

Cecropin A (1-7)-Melittin A (2-9)

Cat. No.:	HY-P3914
CAS No.:	157606-25-2
Molecular Formula:	C ₈₉ H ₁₅₂ N ₂₂ O ₁₅
Molecular Weight:	1770.3
Sequence Shortening:	KWKLFKKIGAVLKVL-NH ₂
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Sealed storage, away from moisture and light
	Powder -80°C 2 years
	-20°C 1 year

KWKLFKKIGAVLKVL-NH₂

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)

SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (56.49 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
	1 mM		0.5649 mL	2.8244 mL	5.6488 mL
	5 mM		0.1130 mL	0.5649 mL	1.1298 mL
	10 mM		0.0565 mL	0.2824 mL	0.5649 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Cecropin A (1-7)-Melittin A (2-9) is an antimicrobial peptide with antimicrobial activity against a broad spectrum of Gram-positive and Gram-negative aerobic bacteria, as well as antimalarial activity, without the adverse hemolytic properties of bee venom peptides^[1].

In Vitro

Cecropin A (1-7)-Melittin A (2-9) (0-64 mg/L, 48 h) inhibits *E. coli* ATCC 25922, *Staphylococcus aureus* ATCC 29213, *B. fragilis* NCTC 9343 and *C. peفرingens* ATCC 13124 with the MIC values of 8 mg/L, 32 mg/L, 8 mg/L and 64 mg/L, respectively^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Charlotta Edlund, et al. Antianaerobic activity of a cecropin---melittin peptide. *Clin Microbiol Infect.* 1998 Apr;4(4):181-185.

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

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