

Bacitracin

Cat. No.:	HY-107193
CAS No.:	1405-87-4
Molecular Formula:	C ₆₆ H ₁₀₃ N ₁₇ O ₁₆ S
Molecular Weight:	1422.69
Target:	Bacterial; Antibiotic
Pathway:	Anti-infection
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)

Bacitracin

SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 6.67 mg/mL (4.69 mM); Need ultrasonic					
		Solvent Concentration	Mass			
	Preparing Stock Solutions			1 mg	5 mg	10 mg
		1 mM		0.7029 mL	3.5145 mL	7.0289 mL
		5 mM		---	---	---
	10 mM		---	---	---	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: PBS Solubility: 100 mg/mL (70.29 mM); Suspended solution; Need ultrasonic					

BIOLOGICAL ACTIVITY

Description	Bacitracin is a polypeptide antibiotic used for staphylococcal infections. Bacitracin functions as an inhibitor of cell wall biosynthesis through its binding to the undecaprenyl pyrophosphate. The combination of bacitracin with other antibiotics has been efficient to be used as a topical agent ^[1] .
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REFERENCES

[1]. Si W, et al. Colistin Induces S. aureus Susceptibility to Bacitracin. Front Microbiol. 2018 Nov 20;9:2805.

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

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