

Ramoplanin

Cat. No.:	HY-129034
CAS No.:	76168-82-6
Target:	Bacterial; Antibiotic
Pathway:	Anti-infection
Storage:	Sealed storage, away from moisture
	Powder -80°C 2 years
	-20°C 1 year

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

Ramoplanin

SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 33.33 mg/mL (Need ultrasonic)
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BIOLOGICAL ACTIVITY

Description	Ramoplanin is a broad-spectrum lipoglycopeptide antibiotic derived from the Actinoplanes spp with activity against gram-positive bacteria ^{[1][2]} .	
IC ₅₀ & Target	Glycopeptide	
In Vitro	Ramoplanin exerts its bactericidal activity against gram-positive aerobic and anaerobic bacteria by blocking peptidoglycan synthesis via lipid II ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
In Vivo	Ramoplanin (100, 500 µg/ml; p.o.; for 8 days) suppresses vancomycin-resistant Enterococcus (VRE) to undetectable level during treatment ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	Female CF1 mice (25-30 g) ^[1]
	Dosage:	100 µg/ml, 500 µg/ml
	Administration:	Oral administration; for 8 days
	Result:	Developed undetectable levels of VRE in stool during treatment.

REFERENCES

[1]. Stiefel U, et al. Efficacy of oral ramoplanin for inhibition of intestinal colonization by vancomycin-resistant enterococci in mice. Antimicrob Agents Chemother. 2004 Jun;48(6):2144-8.

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

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