

Ramoplanin

Cat. No.:	HY-129034
CAS No.:	76168-82-6
Target:	Bacterial; Antibiotic
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

Ramoplanin

BIOLOGICAL ACTIVITY

Description	Ramoplanin is a broad-spectrum lipoglycopeptide antibiotic derived from the Actinoplanes spp with activity against gram-positive bacteria ^{[1][2]} .									
IC₅₀ & Target	Bacteria ^[1]									
In Vitro	<p>Ramoplanin exerts its bactericidal activity against gram-positive aerobic and anaerobic bacteria by blocking peptidoglycan synthesis via lipid II^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>									
In Vivo	<p>Ramoplanin (100, 500 µg/ml; p.o.; for 8 days) suppresses vancomycin-resistant Enterococcus (VRE) to undetectable level during treatment^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Animal Model:</td> <td>Female CF1 mice (25-30 g)^[1]</td> </tr> <tr> <td>Dosage:</td> <td>100 µg/ml, 500 µg/ml</td> </tr> <tr> <td>Administration:</td> <td>Oral administration; for 8 days</td> </tr> <tr> <td>Result:</td> <td>Developed undetectable levels of VRE in stool during treatment.</td> </tr> </table>		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.
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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.

[2]. Cheng M, et al. Ramoplanin at bactericidal concentrations induces bacterial membrane depolarization in *Staphylococcus aureus*. *Antimicrob Agents Chemother.* 2014 Nov;58(11):6819-27.

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

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