

Ramoplanin

Chemical Properties

CAS No. : 76168-82-6

Formula:

Molecular Weight:

Storage: Keep away from moisture, Store at low temperature
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Ramoplanin

Biological Description

Description	Ramoplanin is an antibiotic extracted from Actinoplanes spp., a topical lipoglycopeptide antibacterial agent that inhibits gram-positive bacteria by binding to a critical lipid II intermediate, preventing peptidoglycan formation in the cell wall.
Targets(IC50)	Antibacterial, Antibiotic
In vitro	Ramoplanin is a glycoliptide antibiotic with activity against gram-positive bacteria. The MIC of Ramoplanin against susceptible gram-positive cocci was $\leq 2.0 \mu\text{g/mL}$. [1]
In vivo	A mouse model treated with Ramoplanin (100 $\mu\text{g/mL}$) in drinking water for 8 days was found to effectively inhibit the ability of Vancomycin-resistant Enterococcus (VRE) to colonize the intestines of mice. [2]

Solubility Information

Solubility	DMSO: 30 mg/mL, Sonication is recommended. ($< 1 \text{ mg/ml}$ refers to the product slightly soluble or insoluble)
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Reference

Barry AL, et al. Ramoplanin susceptibility testing criteria. J Clin Microbiol. 1993 Jul;31(7):1932-5.
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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel: 781-999-4286 E_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481