Product Name: Ramoplanin
Product Number: R024
CAS Number: 76168-82-6
Molecular Formula: C$_{119}$H$_{154}$ClN$_{21}$O$_{40}$ (for A2)
Molecular Weight: 2554.1 (for A2)
Appearance: White solid
Solubility: soluble in ethanol, methanol, DMF and DMSO.
Source: Actinoplanes (strain: ATCC 33076)
Storage Conditions: -20°C

Description: Ramoplanin is a cyclic lipoglycodepsipeptide antimicrobial. It is a complex of structurally related molecules with Ramoplanin A2 as the primary component. Ramoplanin was isolated in the early 1980s as the major metabolite of a strain of Actinoplanes. It is a therapeutic peptide, effective against Gram-positive bacteria including MRSA and MRSE.

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Mechanism of Action: Ramoplanin binds to the peptidoglycan intermediate Lipid II, blocking its polymerization to form the carbohydrate chains of peptidoglycan, resulting in inhibition of bacterial cell wall biosynthesis.

Spectrum: Effective against Gram-positive bacteria.

Microbiology Applications: Ramoplanin is effective against antibiotic-resistant Clostridium difficile infection of the gastrointestinal tract. It can be used to study antibiotic-resistant enterococci. Ramoplanin is commonly used in clinical in vitro microbiological antimicrobial susceptibility tests (panels, discs, and MIC strips) against Gram positive isolates. Medical microbiologists use AST results to recommend antibiotic treatment options. For representative MIC values form the Antimicrobial Index, click here.
References:


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