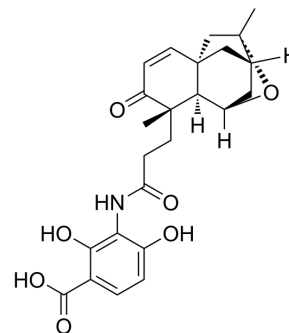


Platensimycin

Cat. No.:	HY-127146
CAS No.:	835876-32-9
Molecular Formula:	C ₂₄ H ₂₇ NO ₇
Molecular Weight:	441.47
Target:	Antibiotic; Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Platensimycin is an antibiotic produced by *S. platensis* that inhibits gram-positive bacteria by selectively inhibiting cellular lipid biosynthesis (IC₅₀=0.1 μM). Platensimycin targets the β-ketoacyl-acyl-carrier-protein synthase I/II, FabF/B, an enzyme that participates in the biosynthesis of fatty acids (IC₅₀s=48 nM and 160 nM for *S.aureus* and *E.coli* enzymes, respectively). Platensimycin is a promising agent for overcoming antibiotic resistance.

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

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