

Product Datasheet

Platencin (orb1984911)

Description	Platencin is a natural, broad-spectrum Gram-positive antibiotic isolated from <i>S. platensis</i> *, which is also the source of platensimycin. Platencin inhibits two key enzymes in bacterial fatty acid synthesis, β -ketoacyl-ACP synthases II and III (FabF and FabH, respectively), unlike platensimycin which only targets FabF. The IC50 values for platencin against FabF and FabH are 1.95 and 3.91 μ g/ml, respectively. It does not exhibit cross-resistance to antibiotic-resistant bacterial strains, including methicillin-resistant <i>S. aureus</i> *, vancomycin-intermediate <i>S. aureus</i> *, and vancomycin-resistant Enterococci. For these reasons, platencin has potential applications in fighting antibiotic-resistant bacteria.
Storage	-20°C
Note	For research use only
Formula	C ₂₄ H ₂₇ NO ₆
Purity	98.00%
MW	425.481
CAS Number	869898-86-2
SMILES	[H][C@@]12CC[C@]3(CC1=C)C=CC(=O)[C@@](C)(CCC(=O)Nc1c(O)ccc(C(O)=O)c1O)[C@]3([H])C2 c:9,TLB:12:30:5.6:2.3
Expiration Date	12 months from date of receipt.

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