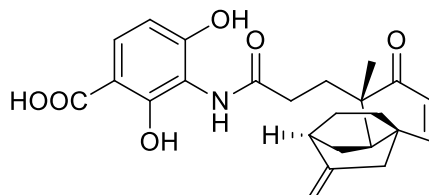


Platencin

Code No.: **BIA-P1178**

Pack sizes: **0.1 mg, 0.5 mg**



Synonyms :

Specifications

CAS #	: 869898-86-2
Molecular Formula	: C ₂₄ H ₂₇ NO ₆
Molecular Weight	: 425.5
Source	: <i>Streptomyces</i> sp.
Appearance	: Light tan solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Poor water solubility.

Application Notes

Platencin is a novel, broad spectrum, Gram-positive antibiotic produced by strains of *Streptomyces platensis*. Platencin is more potent than its analogue, platensimycin. Platencin shows potent in vivo efficacy without any observed toxicity. Platencin targets two essential proteins, b-ketoacyl-acyl carrier protein (ACP) synthase II (FabF) and III (FabH) whereas platensimycin targets only FabF.

References

1. Isolation and Structure of Platencin: A FabH and FabF Dual Inhibitor with Potent Broad-Spectrum Antibiotic Activity. Jayasuriya H. et al., *Angew. Chem. Int. Ed.* 2007, 46, 4684.
2. Discovery of platencin, a dual FabF and FabH inhibitor with in vivo antibiotic properties. Wang J. et al., *PNAS* 2007, 104, 7612.