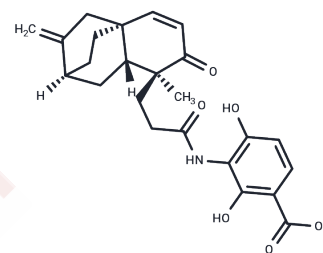


Platencin

Chemical Properties

| | |
|-------------------|--|
| CAS No. : | 869898-86-2 |
| Formula: | C ₂₄ H ₂₇ N ₁ O ₆ |
| Molecular Weight: | 425.481 |
| Storage: | Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small> |



Biological Description

| | |
|----------------------------|---|
| 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 IC ₅₀ 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. |
| Targets(IC ₅₀) | Others,Antibacterial,Antibiotic |

Solubility Information

| | |
|------------|--|
| Solubility | DMSO: Soluble DMF: Soluble Ethanol: Soluble Methanol: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|--|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|------------|------------|-------------|
| 1 mM | 2.3503 mL | 11.7514 mL | 23.5029 mL |
| 5 mM | 0.4701 mL | 2.3503 mL | 4.7006 mL |
| 10 mM | 0.235 mL | 1.1751 mL | 2.3503 mL |
| 50 mM | 0.047 mL | 0.235 mL | 0.4701 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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