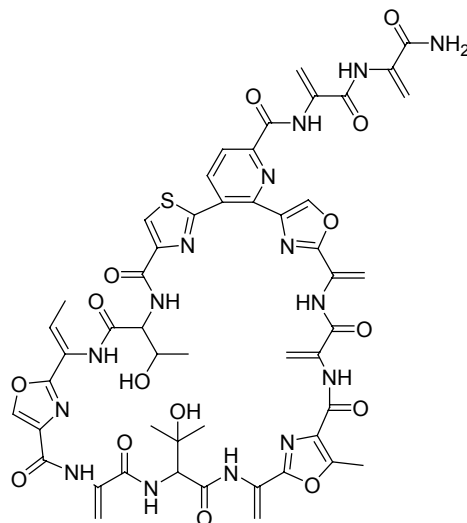


Geninthiocin

Code: **BIA-G1033**

Pack sizes: **0.5 mg, 2.5 mg**



Synonyms : **14-Demethylberinamycin**

Specifications

CAS # : **158792-27-9**
Molecular Formula : **C₅₀H₄₉N₁₅O₁₅S**
Molecular Weight : **1132.1**
Source : ***Streptomyces* sp. MST-AS5991**
Appearance : **White Amorphous Powder**
Purity : **> 95% by HPLC**
Long Term Storage : **+4°C**
Solubility : **Soluble in methanol, DMF or DMSO.**

Application Notes

Geninthiocin, a thiopeptide antibiotic isolated from a *Streptomyces* sp., is a potent activator of the *tipA* gene, a bacterial transcription regulator involved in multidrug resistance. Geninthiocin displays a 10-fold selectivity for bacteria over mammalian cells lines, whereas the related dedialanyl geninthiocin shows the reverse selectivity. Closely related to siomycin, a recently discovered inhibitor of oncogenic transcription factor, FoxM1.

References

1. Structural basis for antibiotic recognition by the TipA class of multidrug-resistance transcriptional regulators. Kahmann J.D. et al. *EMBO J.* **2003**, 22, 1824.
2. Microbial metabolites with *tipA* promoter inducing activity. II. Geninthiocin, a novel thiopeptide produced by *Streptomyces* sp. DD84. Yun B-S. et al. *J. Antibiot.* **1994**, 47, 969.