PRODUCT INFORMATION



Geninthiocin A

Item No. 28125

CAS Registry No.: 158792-27-9

Formal Name: L-threonyl-2-[(1Z)-1-amino-1-propen-1-yl]-

> 4-oxazolecarbonyl-2,3-didehydroalanyl-3methyl-L-threonyl-2-(1-aminoethenyl)-5methyl-4-oxazolecarbonyl-2,3-didehydroalanyl-6-[2-(1-aminoethenyl)-4-oxazolyl]-5-(4-

carboxy-2-thiazolyl)-2-pyridinecarbonyl-2,3didehydroalanyl-2,3-didehydro-alaninamide

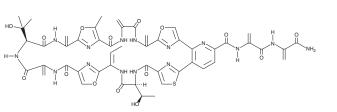
(7→1)-lactam

 $C_{50}H_{49}N_{15}O_{15}S$ MF: FW: 1,132.1

Purity: ≥95% Supplied as: A powder -20°C Storage: Stability: ≥4 years

Item Origin: Bacterium/Streptomyces sp.

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.



Laboratory Procedures

Geninthiocin A is supplied as a powder. A stock solution may be made by dissolving the geninthiocin A in the solvent of choice, which should be purged with an inert gas. Geninthiocin A is soluble in DMSO and dimethyl formamide. Geninthiocin A is slightly soluble in ethanol.

Description

Geninthiocin A is a cyclic thiopeptide bacterial metabolite originally isolated from Streptomyces sp. DD84.¹ It is active against a variety of Gram-positive bacteria (MICs = 0.2-4 μg/ml), the Gram-negative bacterium C. violaceum (MIC = 19 µg/ml), and the fungus M. hiemalis (MIC = 38 µg/ml).² Geninthiocin A also induces tipA promoter transcription with a minimum induction concentration of 1.2 ng/ml.¹

References

- 1. Yun, B.-S., Hidaka, T., Furihata, K., et al. Microbial metabolites with tipA promoter inducing activity. II. Geninthiocin, a novel thiopeptide produced by Streptomyces sp. DD84. J. Antibiot. (Tokyo) 47(9), 969-975
- 2. Iniyan, A.M., Sudarman, E., Wink, J., et al. Ala-geninthiocin, a new broad spectrum thiopeptide antibiotic, produced by a marine Streptomyces sp. ICN19. J. Antibiot. (Tokyo) 72(2), 99-105 (2019).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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