PRODUCT INFORMATION



Actinopyrone A

Item No. 23140

CAS Registry No.: 88378-59-0

Formal Name: 2-[(2E,5E,7E,9R,10R,11E)-10-

> hydroxy-3,7,9,11-tetramethyl-2,5,7,11-tridecatetraen-1-yl]-6-methoxy-3,5-dimethyl-4H-

pyran-4-one

Synonyms: (+)-Actinopyrone A,

SS 1538A

MF: C₂₅H₃₆O₄ FW: 400.6 ≥95% **Purity:** Supplied as: An oil Storage: -20°C Stability: ≥4 years

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

Laboratory Procedures

Actinopyrone A is supplied as an oil. A stock solution may be made by dissolving the actinopyrone A in the solvent of choice, which should be purged with an inert gas. Actinopyrone A is soluble in organic solvents such as ethanol, methanol, DMSO, and dimethyl formamide.

Description

Actinopyrone A is a pyrone isolated from S. pactum with diverse biological activities. 1 It has selective and potent antimicrobial activity against H. pylori (MIC = 0.1 ng/ml) with no activity against other Gram-negative bacteria including E. coli, K. pneumoniae, P. aeruginosa, and B. fragilis. 1,2 Actinopyrone A also mildly inhibits growth of Gram-positive bacteria and dermatophytes with MIC values ranging from <6.25 to 25 μ g/ml.¹ Intravenous administration of actinopyrone A (30 µg/kg) increases coronary blood flow in dogs by 196.2%.

References

- 1. Yano, K., Yokoi, K., Sato, J., et al. Actinopyrones A, B and C, new physiologically active substances. I. Producing organism, fermentation, isolation and biological properties. J. Antibiot. (Tokyo) 39(1), 32-37 (1986).
- Taniguchi, M., Watanabe, M., Nagai, K., et al. γ-pyrone compounds with selective and potent anti-Helicobacter pylori activity. J. Antibiot. (Tokyo) 53(8), 844-847 (2000).

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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