

Product Data Sheet

Product Name: Napyradiomycin A1

Cat. No.: GC47747

Chemical Properties

Cas. No. 103106-24-7

SMILES OC1=CC(O)=C2C(C([C@@](OC(C)(C)[C@H](Cl)C3)(C/C=C(C)/CC/C=C(C)/C)[C@@]3(Cl)C2=O)=O)=C1

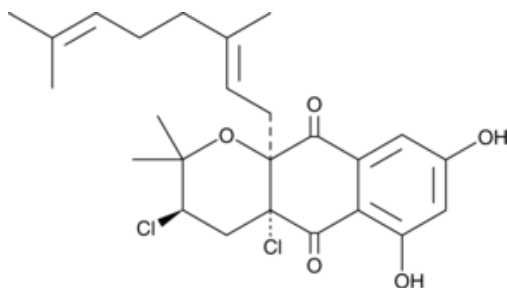
Formula C₂₅H₃₀Cl₂O₅ M.Wt 481.4

Solubility Dichloromethane: soluble, DMSO: soluble, Ethanol: soluble, Methanol: soluble
Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Napyradiomycin A₁ is a fungal metabolite originally isolated from *C. rubra* and has diverse biological activities.^{1,2} It is active against *S. aureus*, *M. luteus*, *B. anthracis*, *C. bovis*, and *M. smegmatis* (MICs = 1.56-12.5 µg/ml).¹ Napyradiomycin A₁ is an estrogen receptor antagonist (IC₅₀ = 4.2 µM in rat uterine homogenates).² It also inhibits mitochondrial NADH:ubiquinone oxidoreductase (complex I) and succinate:ubiquinone oxidoreductase (complex II) activities in bovine heart homogenates (IC₅₀s = 20 and 9.7 µM, respectively).³

Caution: Product has not been fully validated for medical applications. For research use only.

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1. Shiomi, K., Iinuma, H., Hamada, M., et al. Novel antibiotics napyradiomycins. Production, isolation, physico-chemical properties and biological activity. *J. Antibiot. (Tokyo)* 39(4):487-493 (1986)

2. Hori, Y., Abe, Y., Shigematsu, N., et al. Napyradiomycins A and B1: Non-steroidal estrogen-receptor antagonists produced by a *Streptomyces*. *J. Antibiot. (Tokyo)* 46(12):1890-1893 (1993)

3. Yamamoto, K., Tashiro, E., Motohashi, K., et al. Napyradiomycin A1, an inhibitor of mitochondrial complexes I and II. *J. Antibiot. (Tokyo)* 65(4):211-214 (2012)

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