



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

# PRODUCT INFORMATION



## Napyradiomycin A<sub>1</sub>

Item No. 29215

**CAS Registry No.:** 103106-24-7  
**Formal Name:** (3R,4aR,10aS)-3,4a-dichloro-10a-  
[(2E)-3,7-dimethyl-2,6-octadien-1-yl]-  
3,4,4a,10a-tetrahydro-6,8-dihydroxy-  
2,2-dimethyl-2H-naphtho[2,3-b]  
pyran-5,10-dione

**MF:** C<sub>25</sub>H<sub>30</sub>Cl<sub>2</sub>O<sub>5</sub>

**FW:** 481.4

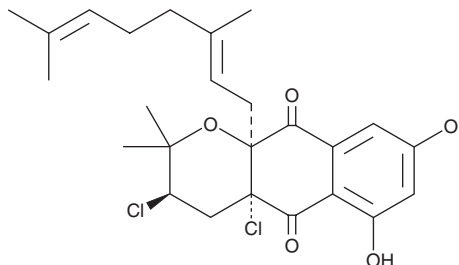
**Purity:** ≥70%

**Supplied as:** A solid

**Storage:** -20°C

**Stability:** ≥2 years

**Item Origin:** Bacterium/*Streptomyces* sp.



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

### Laboratory Procedures

Napyradiomycin A<sub>1</sub> is supplied as a solid. A stock solution may be made by dissolving the napyradiomycin A<sub>1</sub> in the solvent of choice, which should be purged with an inert gas. Napyradiomycin A<sub>1</sub> is soluble in organic solvents such as ethanol, methanol, dichloromethane, and DMSO.

### Description

Napyradiomycin A<sub>1</sub> is a fungal metabolite originally isolated from *C. rubra* and has diverse biological activities.<sup>1,2</sup> It is active against *S. aureus*, *M. luteus*, *B. anthracis*, *C. bovis*, and *M. smegmatis* (MICs = 1.56-12.5 µg/ml).<sup>1</sup> Napyradiomycin A<sub>1</sub> is an estrogen receptor antagonist (IC<sub>50</sub> = 4.2 µM in rat uterine homogenates).<sup>2</sup> It also inhibits mitochondrial NADH:ubiquinone oxidoreductase (complex I) and succinate:ubiquinone oxidoreductase (complex II) activities in bovine heart homogenates (IC<sub>50</sub>s = 20 and 9.7 µM, respectively).<sup>3</sup>

### References

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).

#### WARNING

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

#### SAFETY DATA

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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#### CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD  
ANN ARBOR, MI 48108 · USA

**PHONE:** [800] 364-9897

[734] 971-3335

**FAX:** [734] 971-3640

CUSTSERV@CAYMANCHEM.COM  
WWW.CAYMANCHEM.COM