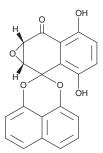
PRODUCT INFORMATION



Palmarumycin C3

Item No. 31447

CAS Registry No.:	159934-11-9	он ОН
Formal Name:	1aR,7aS-dihydro-3,6-dihydroxy-spiro[naphth[2,3-b]	
	oxirene-2(7H),2'-naphtho[1,8-de][1,3]dioxin]-7-one	0.
MF:	C ₂₀ H ₁₂ O ₆	
FW:	348.3	H ^A O Y
Purity:	≥95%	ј ј он
Supplied as:	A solid	
Storage:	-20°C	
Stability:	≥4 years	
Item Origin:	Fungus/Sphaeropsidales sp.	\checkmark \checkmark
Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.		



Laboratory Procedures

Palmarumycin C3 is supplied as a solid. A stock solution may be made by dissolving the palmarumycin C3 in the solvent of choice, which should be purged with an inert gas. Palmarumycin C3 is soluble in DMSO, dichloromethane, acetone and methanol.

Description

Palmarumycin C3 is a spirobisnaphthalene fungal metabolite that has been found in C. palmarum and has diverse biological activities.^{1,2} It is active against the bacteria A. tumefaciens, B. subtilis, P. lachrymans, R. solanacearum, S. haemolyticus, and X. vesicatoria (MICs = 6.25, 6.25, 12.5, 12.5, 6.25, and 6.25 μg/ml, respectively).² Palmarumycin C3 is also active against the fungi M. microspora and E. repens, as well as the plant pathogenic fungi F. oxysporum and U. violacea, in agar diffusion assays when used at a concentration of 0.5 mg/disc.¹ It scavenges DPPH (Item No. 14805) radicals in cell-free assays and has antioxidant activity in a β -carotene-linoleic acid bleaching assay (IC₅₀s = 37.57 and 7.41 μ g/ml, respectively).

References

- 1. Krohn, K., Michel, A., Flörke, U., et al. Biologically active metabolites from fungi, 5. Palmarumycins C1-C16 from Coniothyrium sp.: Isolation, structure elucidation, and biological activity. Eur. J. Org. Chem. 1994(11), 1099-1108 (1994).
- 2. Mou, Y., Meng, J., Fu, X., et al. Antimicrobial and antioxidant activities and effect of 1-hexadecene addition on palmarumycin C_2 and C_3 yields in liquid culture of endophytic fungus Berkleasmium sp. Dzf12. Molecules 18(12), 15587-15599 (2013).

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.

WARRANTY AND LIMITATION OF REMEDY

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