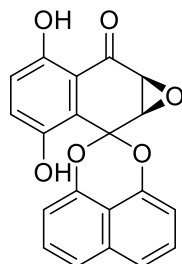


Palmarumycin C3

Code No.: **BIA-P1916**

Pack sizes: **0.5 mg, 2.5 mg**



Synonyms :

Specifications

CAS #	: 159934-11-9
Molecular Formula	: C ₂₀ H ₁₂ O ₆
Molecular Weight	: 348.3
Source	: <i>Sphaeropsidales sp.</i>
Appearance	: Yellow to green solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in DMSO, dichloromethane, acetone or methanol

Application Notes

The palmarumycins are fungal metabolites isolated from *Coniothyrium* and *Sphaeropsidales sp.* with antifungal, antibacterial, antitumor and herbicidal properties. Palmarumycin C3 is a yellow-green pigment which inhibits Ras farnesyl-protein transferase. Palmarumycin C3 is a more potent antimicrobial agent against *A. tumefaciens*, *B. subtilis*, *P. lachrymans*, *R. solanacearum*, *S. haemolyticus*, *X. vesicatoria* and *M. oryzae* than its dehydroxy analogue palmarumycin C2, with MICs in the range of 6 – 13 µg/mL. Palmarumycin C3 is a weak inhibitor of spore germination of *M. oryzae* and a modest antioxidant in DPPH radical scavenging and β-carotene/linoleic acid bleaching capacity assays.

References

1. Palmarumycins C1-C16 from *Coniothyrium sp.*: isolation, structure elucidation, and biological activity. Krohn K. et al. *Liebigs Annalen der Chemie* 1994, 11, 1099.
2. Antimicrobial and antioxidant activities and effect of 1-hexadecene addition on palmarumycin C2 and C3 yields in liquid culture of endophytic fungus *Berkleasium sp.* Dzf12. Mou Y. et al. *Molecul.* 2013, 18, 15587.
3. Molecular pharmacology and antitumor activity of palmarumycin-based inhibitors of thioredoxin reductase. Powis G. et al. *Mol Cancer Therap.* 2006, 5, 630.