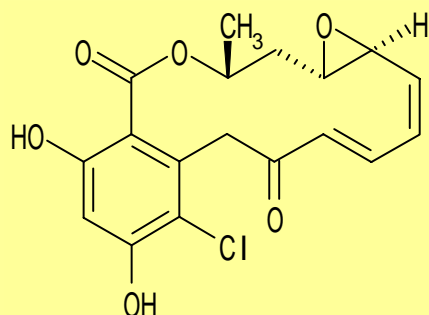


Structure



Origin: *Pochonia* .sp FKI-4937

CAS Registry Number: 12772-57-5

CA Index Name: 8-Chloro-1,14,15,15-tetrahydro-9,11-dihydroxy-14-methyl-6H-oxireno[e][1,2]benzoxacyclotetradecin-6,12(1H)-dione,

Appearance: lemon-yellow needles

Molecular Formula/ Weight: C₁₉H₁₇ClO₆=364.78

Melting Point: 196-197 **Purity:** >98% by HPLC

Solubility: Sol. MeOH, Chloroform, EtOAc, DMSO
Inso. water, Hexane

Background Information:

Monorden A, which is a macrolactone antibiotic, was isolated from *Monosporium bonorden*¹⁾, *Cylindrocarpum radicolica*²⁾, *Penicillium luteoorantium*³⁾, and other microorganisms. Monorden A binds to Hsp90 (Heat Shock Protein 90) and alters its function⁴⁾. Monorden A is known as protein kinase inhibitor. Radicicol is an antifungal antibiotic that was shown to inhibit transformation by oncogenes v-src, ras, raf, and mos^{5, 6)}.

Handling and Storage:

Store at -20 °C.

References:

1. P. Delmotte & J. Delmotte-Plaque, *Nature*, **171**, 311 (1953).
2. W. Evans & N. H. White, *Trans. Br. Mycol. Soc.*, **49**, 563 (1966).
3. K. Nozawa, S. Nakajima, *J. Nat. Prod.*, **42**, 374-377 (1979)
4. S. W. Ki, et. al., *Biosci. Biotechnol. Biochem.*, **65**, 2528-2534 (2001)
5. H. J. Kwon, et. al., *Biosci. Biotechnol. Biochem.*, **56**, 538-539 (1992).
6. J. F. Zhao, et. al., *Oncogene*, **11**, 161-173 (1995).