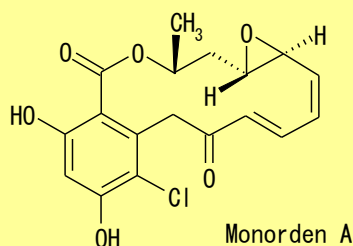


## Structure



**Origin:** *Pochonia* .sp FKI-4937

**CAS Registry Number:** 12772-57-5

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

**Appearance:** lemon-yellow needles

**Molecular Formula/ Weight:** C<sub>19</sub>H<sub>17</sub>ClO<sub>6</sub>=364.78

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

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

**pKa:** **log P:**

### Background Information:

Monorden A, which is a macrolactone antibiotic, was isolated from *Monosporium bonorden*<sup>1)</sup>, *Cylindrocarpon radicicola*<sup>2)</sup>, *Penicillium luteoorantium*<sup>3)</sup>, and other microorganisms. Monorden A binds to Hsp90 (Heat Shock Protein 90) and alters its function<sup>4)</sup>. 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<sup>5, 6)</sup>.

### 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).

Manufactured with Cortesy strain from The Kitasato Institute.

(ID#: FKI-4937)