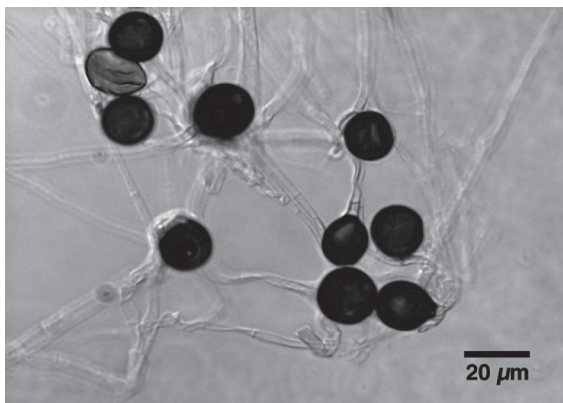


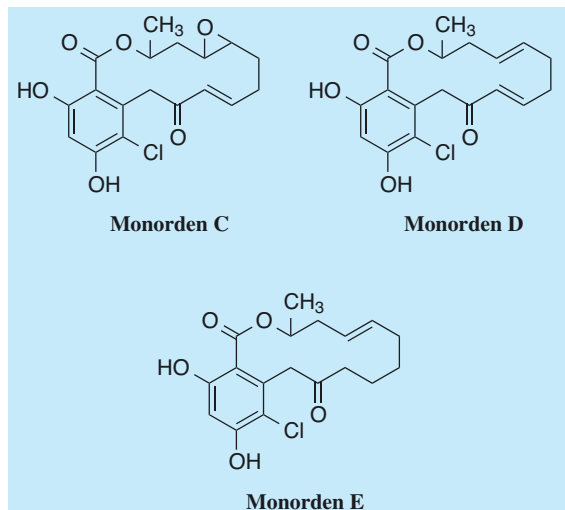
# Monorden

## 1. Discovery, producing organism and structures<sup>1,2)</sup>

Monordens C, D and E, members of radicicol (monorden A) family, were isolated from the culture broth of the amidepsine-producing *Humicola grisea* strain FO-2942 as cell cycle modulators of Jurkat cells.



*Humicola* sp. FO-2942  
(*Humicola grisea* FO-2942)



## 2. Physical data (Monorden C)

Yellowish amorphous powder.  $C_{18}H_{19}O_6Cl$ ; mol wt 366.79. Sol. in MeOH. Insol. in  $H_2O$ , hexane.

## 3. Biological activity<sup>1)</sup>

### 1) Cell cycle modulating activity<sup>1)</sup>

Monordens arrest the cell cycle at G1 and G2/M phases in Jurkat cells. Among the three compounds isolated, monorden C shows the most potent activity.

### 2) Antifungal activity<sup>1)</sup>

Monorden C inhibits the growth of *Aspergillus niger* with an  $IC_{50}$  value of 70  $\mu M$ .

## 4. References

- [835] M. Arai *et al.*, *J. Antibiot.* 56, 526-532 (2003)
- [836] K. Yamamoto *et al.*, *J. Antibiot.* 56, 533-538 (2003)