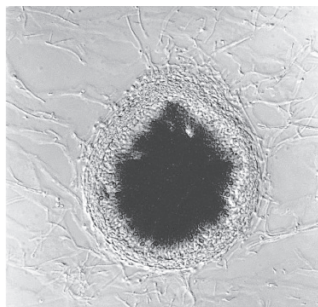


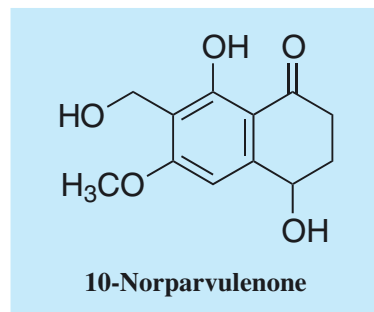
10-Norparvulenone

1. Discovery, producing organism and structure^{1,2)}

10-Norparvulenone was isolated from the culture broth of *Paraconiothyrium sporulosum* FO-5050. The strain FO-5050 also produced macrospores. 10-Norparvulenone inhibited the replication of the influenza virus.



Microsphaeropsis sp. FO-5050
(*Paraconiothyrium sporulosum* FO-5050)
Bar: 100 μ m

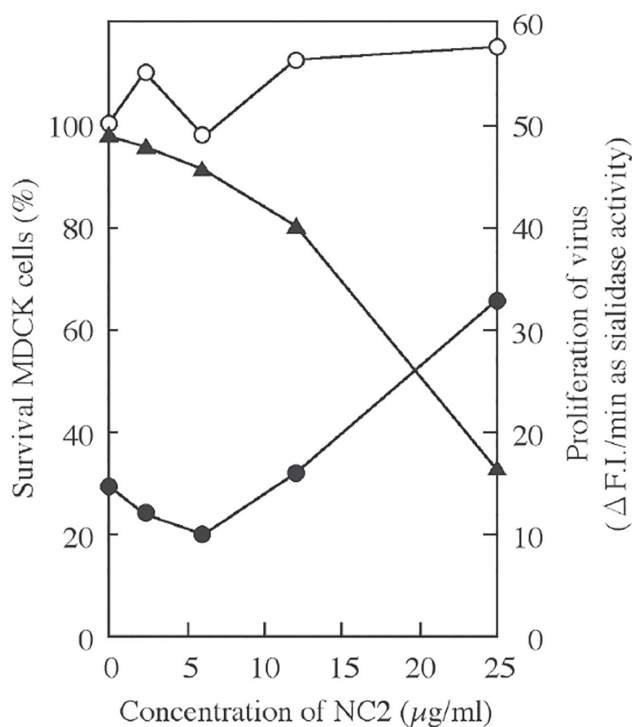


2. Physical data

White powder. $C_{12}H_{14}O_5$; mol wt 238.24. Sol. in DMSO, MeOH.

3. Biological activity¹⁾

1) Anti-influenza virus activity



Effect of 10-norparvulenone on replication of mouse-adapted influenza virus A/PR/8/34 in MDCK cells (● survival of infected cells, ○ survival of mock-infected cells, ▲ virus sialidase activity)

2) Antimicrobial activity

10-Norparvulenone showed no antimicrobial activity against several microorganisms at a concentration of 10 μ g/disc (paper disc method).

4. References

- [763] A. Fukami *et al.*, *J. Antibiot.* **53**, 1215-1218 (2000)
- [597] M. Hayashi *et al.*, *J. Antibiot.* **48**, 1435-1439 (1995)
- S. Z. Zard *et al.*, *Org. Lett.* **5**, 3717-3719 (2003)