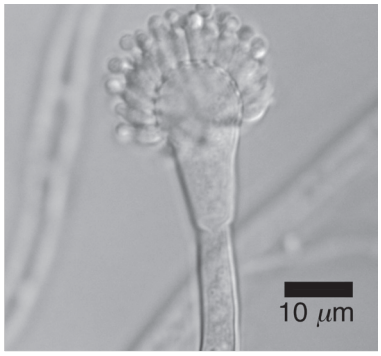
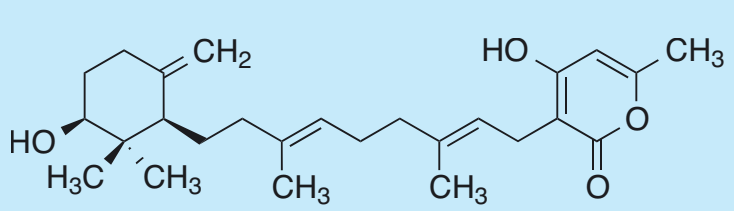
Sartorypyrone D

1. Discovery, producing organism and structure[1)]

Sartorypyrone D was isolated, together with known derivatives, sartorypyrone A and aszonapyrones A and B, from a culture broth of a fungal strain, *Neosartorya fischeri* FO-5897. It was shown to be a potent NADH-fumarate reductase inhibitor.



Neosartorya fischeri FO-5897



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2. Physical data

Yellow amorphous solid. $C_{26}H_{38}O_4$; mol wt 414.58. Sol. in $CHCl_3$.

3. Biological activity[1)]

1) Inhibitory activity against NADH-fumarate reductase (NFRD)

Sartorypyrone D inhibited NFRD potently, while also showing comparable inhibition activity of mammalian NADH oxidase.

2) Antimicrobial activity

In the paper disk assay, sartorypyrone D, at 10 μg/disc, showed antibacterial activities against all Gram-positive bacteria used (*Bacillus subtilis* (8 mm), *Kocuria rhizophila* (9 mm) and *Mycobacteria smegmatis* (10 mm)).

4. References

1. [ ] S. Kaifuchi *et al.*, *J. Antibiot.* in press