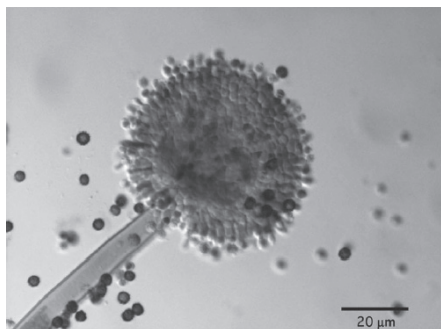


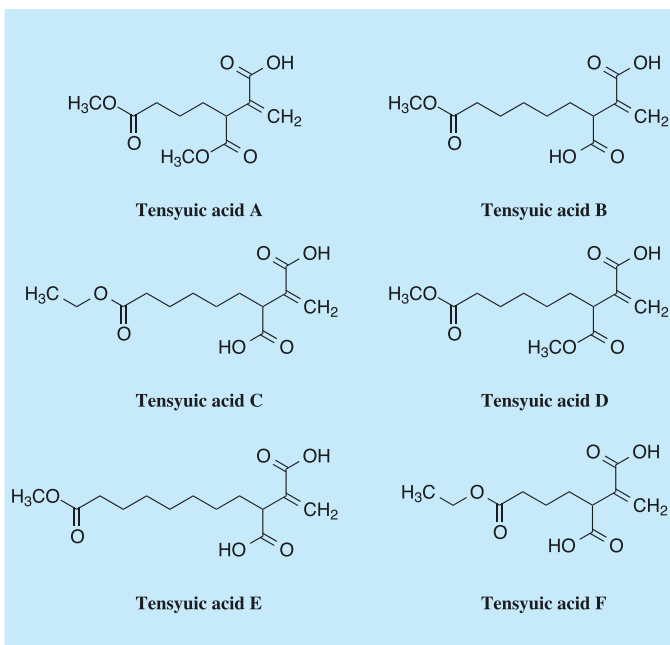
Tensyucic acid

1. Discovery, producing organism and structures¹⁾

Tensyucic acids were isolated from the culture broth of *Aspergillus niger* strain FKI-2342 as anti-microbial antibiotics.



Aspergillus niger FKI-2342



2. Physical data (Tensyucic acid C)¹⁾

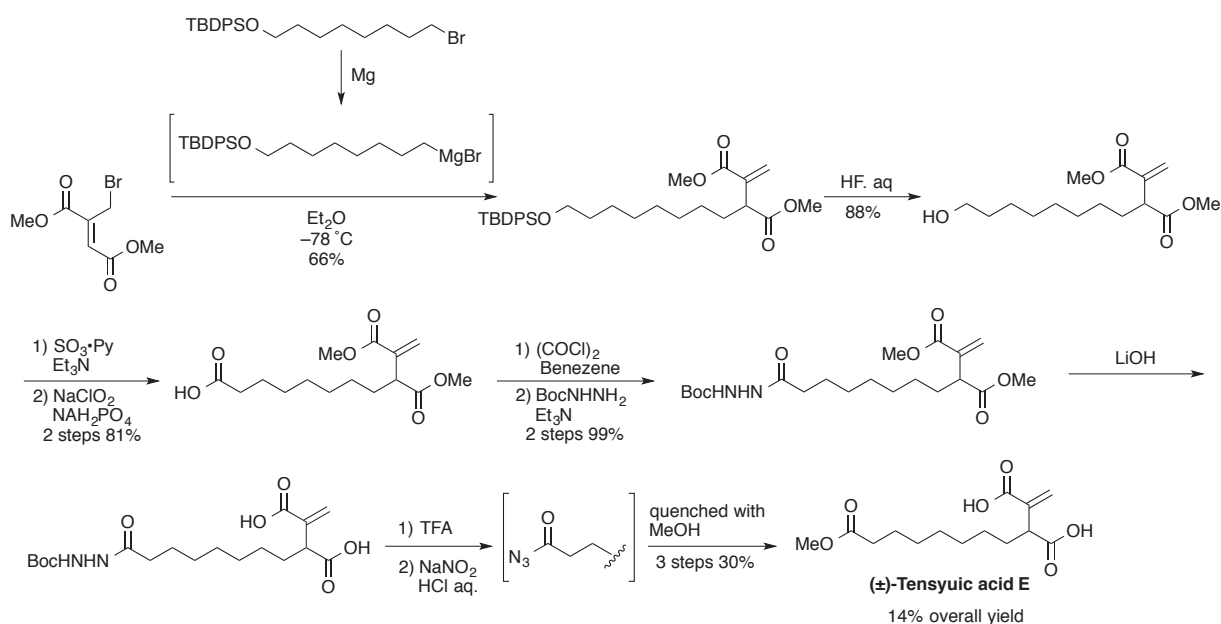
Yellow syrup. $C_{13}H_{20}O_6$; mol wt 272.29. Sol. in $CHCl_3$, MeOH, EtOAc. Insol. in H_2O .

3. Biological activity¹⁾

Tensyucic acid C showed moderate antimicrobial activity only against *Bacillus subtilis* (inhibition zone: 10 mm at 50 μg /disk). All the other tensyucic acids showed no inhibition zone against microorganisms tested at 50 μg /disk.

4. Total synthesis²⁾

Total synthesis of tensyucic acids B, C and E has been achieved by Ōmura's group (See Appendix). Below is a scheme of total synthesis of tensyucic acid E.



4. References

- [967] T. Fukuda *et al.*, *Chem. Pharm. Bull.* **55**, 1338-1341 (2007)
- [995] T. Matsumaru *et al.*, *Tetrahedron* **64**, 7369-7377 (2008)