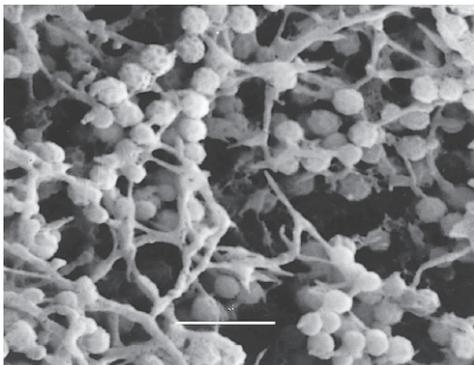


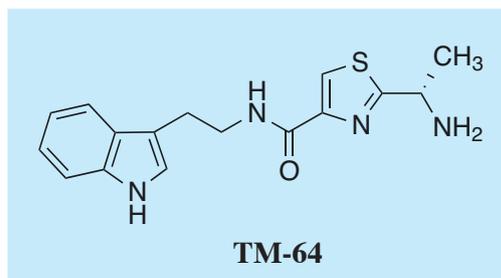
# TM-64

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

While screening for microbial alkaloids, TM-64 was isolated from the culture broth of *Thermoactinomyces antibioticus* strain TM-64. The fermentation was carried out at 45°C. The structure of TM-64 was elucidated by UV, IR, and NMR spectra<sup>1)</sup>. TM-64 contains an indole skeleton and sulfur atom in the molecule. The total synthesis of TM-64 was reported by Onda *et al.*<sup>3)</sup> (See Appendix-I).



*Thermoactinomyces antibioticus* TM-64  
Bar: 5  $\mu\text{m}$



## 2. Physical data<sup>1)</sup>

Pale yellow granular crystals.  $\text{C}_{16}\text{H}_{18}\text{N}_4\text{OS}$ ; mol wt 314.12. Sol. in MeOH.

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

When a 3% solution of TM-64 was dropped into the eyes of guinea pigs, a weak deteriorated reflex of the cornea was observed.

## 4. References

- [89] S. Ōmura *et al.*, *J. Antibiot.* **28**, 609-610 (1975)
- [104] Y. Konda *et al.*, *Chem. Pharm. Bull.* **24**, 92-96 (1976)
- M. Onda *et al.*, *Chem. Pharm. Bull.* **26** 2167-2169 (1978)