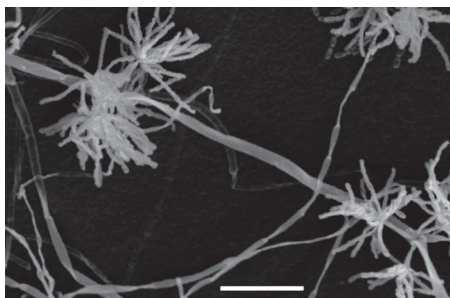


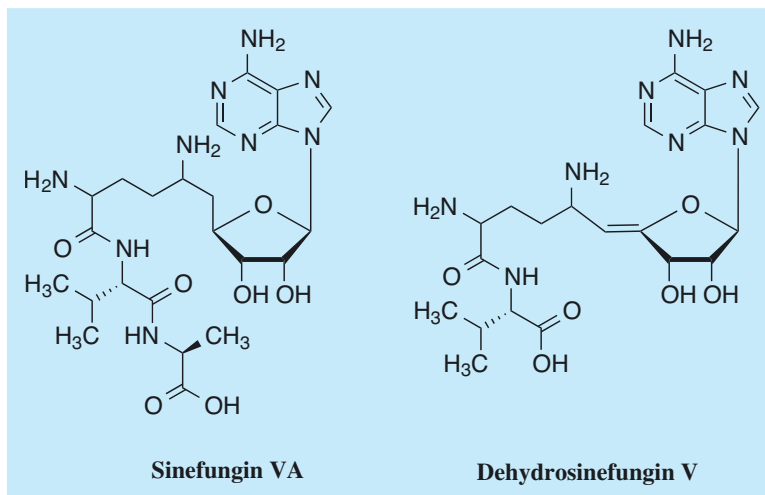
Sinefungin VA

1. Discovery, producing organism and structure¹⁾

Sinefungin VA and dehydrosinefungin V were found in a culture broth of *Streptomyces* sp. K05-0175 as an antitrypanosomal nucleotides together with the known analogs, sinefungin, dehydrosinefungin and KSA-9342.



Streptomyces sp. K05-0175
Bar: 10 μm



2. Physical data (Sinefungin VA)

Pale brown powder. $\text{C}_{23}\text{H}_{37}\text{N}_9\text{O}_7$; mol wt 551. Sol. in H_2O , MeOH, acetone, Insol. in CHCl_3 , *n*-hexane.

3. Biological activity¹⁾

1) *In vitro* antitrypanosomal activity

Sinefungin VA and dehydrosinefungin V exhibited potent *in vitro* antitrypanosomal activity against *Trypanosoma brucei brucei* GuTat3.1, with IC_{50} values of 0.0026 and 0.15 $\mu\text{g}/\text{mL}$, respectively, without cytotoxicity against human MRC-5 cells.

4. References

- [1075] M. Niitsuma *et al.*, *J. Antibiot.* **63**, 673-679 (2010)