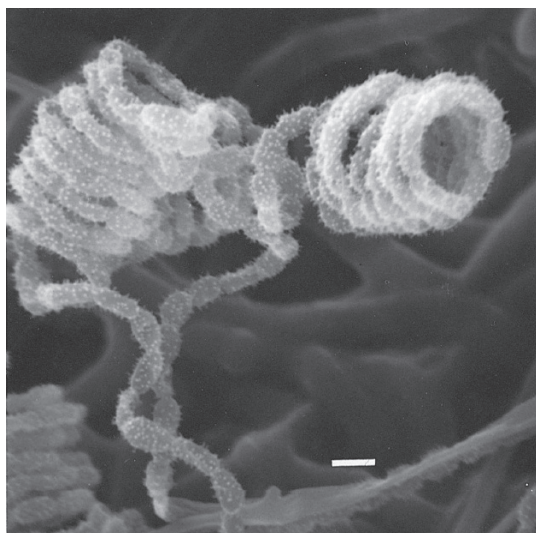


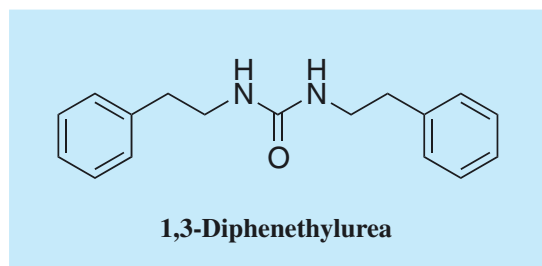
1, 3-Diphenethylurea

1. Discovery, producing organism and structure¹⁾

During screening for new microbial alkaloids, 1,3-diphenethylurea was found and identified as a metabolite of an actinomycete strain AM-2498. The structure was elucidated by UV, IR and ¹³C NMR spectra.



Streptomyces sp. AM-2498



2. Physical data

Colorless needles. C₁₇H₂₀N₂O; mol wt 268.16. Sol. in MeOH. Insol. in benzene.

3. Biological activity¹⁾

In a preliminary test 1,3-diphenethylurea was found to possess weak antidepressant activity. No acute toxicity of the metabolite was observed at an i.p. administration of 100 mg/kg in mice.

4. References

1. [142] Y. Iwai *et al.*, *J. Antibiot.* **31**, 375-376 (1978)