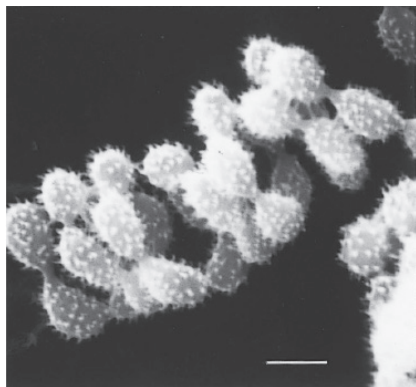


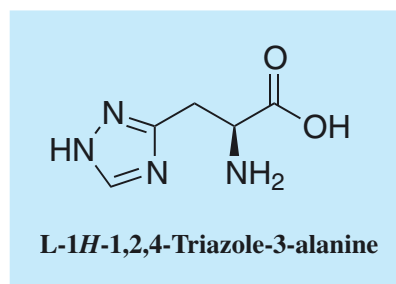
L-1*H*-1, 2, 4-Triazole-3-alanine

1. Discovery, producing organism and structures¹⁾

Over the course of screening for new amino acids antimetabolites from microorganisms, L-1*H*-1,2,4-triazole-3-alanine was isolated from the culture broth of the actinomycete strain KM-10329. This is the first report of a naturally occurring compound containing a 1,2,4-triazole ring.



Streptomyces sp. KM-10329



2. Physical data¹⁾

Crystalline. C₅H₈N₄O₂; mol wt 156.06. Sol. in MeOH, H₂O.

3. Biological activity¹⁾

L-1*H*-1,2,4-Triazole-3-alanine is a histidine antagonist, which acts as the feed back inhibitor of histidine biosynthesis.

4. Reference

- [325] N. Imamura *et al.*, *J. Antibiot.* **38**, 1110-1111 (1985)