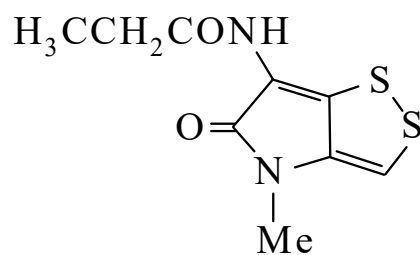




>>Entry Name: Aureothricin

Synonym(s): *N*-(4,5-Dihydro-4-methyl-5-oxo-1,2-dithiolo[4,3-*b*]pyrrol-6-yl)propanamide, 9Cl, 8Cl. Propionylpyrrothione. **Farcinicin**‡



CAS Registry Number: 574-95-8

Molecular Formula: C₉H₁₀N₂O₂S₂

Molecular Weight: 242.322

Accurate Mass: 242.018368

Percentage Composition: C 44.61%; H 4.16%; N 11.56%; O 13.21%; S 26.47%

Biological Source: Isol. from *Streptomyces* spp.

Use/Importance: Antibiotic and antifungal agent

Physical Description: Golden-yellow cryst. (EtOAc)

Melting Point: Mp 260-270 dec.°

Solubility: BERDY SOL: Sol. MeOH, CHCl₃; fairly sol. C₆H₆; poorly sol. Et₂O, H₂O, hexane

UV: [neutral] λ_{max} (MeOH) (Berdy) [neutral] λ_{max} 246 (ε 6500); 313 (ε 4000); 390 (ε 11100) (EtOH) (Berdy)

Other Data: Related to Holomycin (see 1,2-Dithiolo[4,3-*b*]pyrrol-5(4*H*)-one [CKG35-D](#)) and Thiolutin [HHV73-S](#)

Hazard & Toxicity: BERDY HAZD : LD₅₀ (mus, scu) 10 mg/kg

References:

Celmer, W.D. *et al.*, *J.A.C.S.*, 1952, **74**, 6304, (*isol, struct, uv, ir*)

Schmidt, U. *et al.*, *Angew. Chem., Int. Ed.*, 1962, **1**, 265, (*synth*)

Yamagishi, S. *et al.*, *Yakugaku Zasshi*, 1971, **91**, 351, (*isol, struct, ir, ms, nmr*)

Hagio, K. *et al.*, *Bull. Chem. Soc. Jpn.*, 1974, **47**, 1484, (*synth, ir, uv, nmr*)

Furumai, T. *et al.*, *J. Antibiot.*, 1982, **35**, 1367, (*isol*)

Dell, I. *et al.*, *ACS Symp. Ser.*, 1992, **504**, 384, (*synth*)