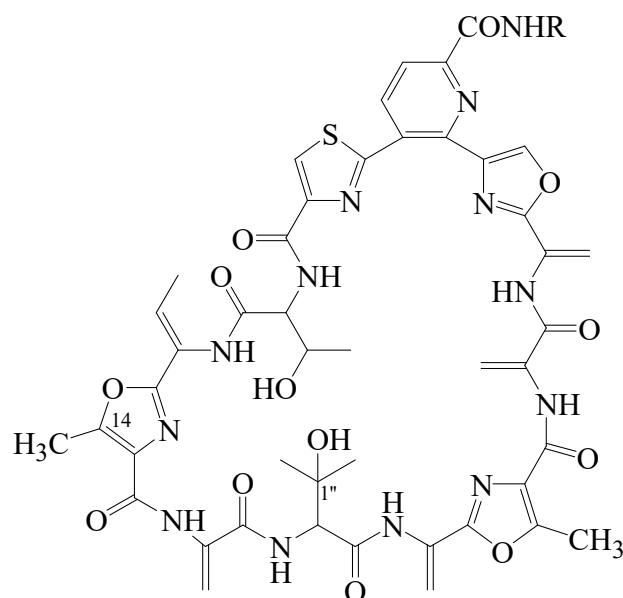




>>Entry Name: Berninamycin A, 9Cl

Synonym(s): U 27810. Antibiotic U 27810



R = -C(=CH₂)CONHC(=CH₂)CONH₂

CAS Registry Number: 58798-97-3

Molecular Formula: C₅₁H₅₁N₁₅O₁₅S

Molecular Weight: 1146.121

Accurate Mass: 1145.34098

Percentage Composition: C 53.45%; H 4.48%; N 18.33%; O 20.94%; S 2.80%

General Statement: Peptide antibiotic

Biological Source: Isol. from *Streptomyces bernensis*

Use/Importance: Component of the Berninamycin complex which shows activity against gram-positive bacteria and is a potent inhibitor of bacterial protein synth.

Solubility: BERDY SOL: Sol. MeOH, butanol, DMF; poorly sol. H₂O, Me₂CO, hexane

UV: [neutral] λ_{max} 208 (ε 71500); 236 (ε 73800); 255 (sh) (ε 71500) (MeOH) (Derep) [neutral] λ_{max} 208 (E1%/1cm 624); 236 (E1%/1cm 644); 250 (ε 16000) (MeOH) (Berdy)

Other Data: Prob. identical with Theiomycetin

>>Derivative: Dihydro

Melting Point: Mp 268-272 dec.°

>>Derivative: Hexahydro

Melting Point: Mp 275-280°

>>Derivative: 1''-Deoxy

Synonym(s): Berninamycin B

CAS Registry Number: 58798-98-4

Molecular Formula: C₅₁H₅₁N₁₅O₁₄S

Molecular Weight: 1130.122

Accurate Mass: 1129.346065

Percentage Composition: C 54.20%; H 4.55%; N 18.59%; O 19.82%; S 2.84%

Biological Source: Isol. from *Streptomyces bernensis*

Physical Description: Powder

UV: [neutral] λ_{max} 208 (ε 71500); 236 (ε 73800); 255 (sh) (ε 71500) (MeOH) (Derep)