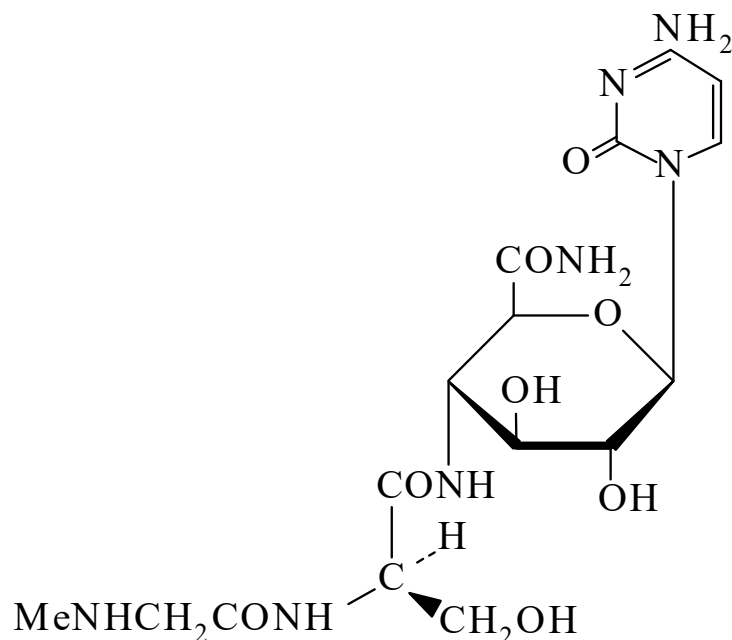




>>Entry Name: Gougerotin

Synonym(s): 1-(4-Amino-2-oxo-1(2*H*)-pyrimidinyl)-1,4-dideoxy-4-[[3-hydroxy-2-[[[(methylamino)acetyl]amino]-1-oxopropyl]amino]-β-D-glucopyranuronamide, 9Cl. 1-Cytosinyl-4-sarcosyl-D-serylamine-1,4-dideoxy-β-D-glucopyranuronamide. Asteromycin. Aspiculamycin. Qingfengmycin



CAS Registry Number: 2096-42-6

Molecular Formula: C₁₆H₂₅N₇O₈

Molecular Weight: 443.416

Accurate Mass: 443.176463

Percentage Composition: C 43.34%; H 5.68%; N 22.11%; O 28.87%

Biological Source: Isol. from *Streptomyces gougerotii*, *Streptomyces toyocaensis*, *Streptomyces quingfengmyceticus*, *Streptomyces puniceus doliceus* and *Streptomyces ahyscopicus*

Use/Importance: Shows antibacterial and antiviral activity inhibiting peptide bond formation

Physical Description: Needles (MeOH)

Melting Point: Mp 211-217 dec.°

Optical Rotation: [α]_D²⁷+53 (c, 0.8 in H₂O)

UV: [acid] λ_{max} 276 (ε 13300) (0.1*N* HCl) (Derep) [base] λ_{max} 228 (ε 8900); 269 (ε 9400) (0.1*N* NaOH) (Derep) [base] λ_{max} 236 (ε 8250); 268 (ε 8600) (H₂O at pH 11) (Derep) [neutral] λ_{max} 231 (ε 8900); 268 (ε 9400) (H₂O at pH 7) (Derep) [neutral] λ_{max} 236 (ε 8250); 268 (ε 8600) (H₂O at pH 6.8) (Derep) [acid] λ_{max} 276 (ε 11300) (H₂O at pH 3) (Derep)

Sigma: G0384

References:

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Haneishi, T. *et al.*, *J. Antibiot.*, 1974, **27**, 334, (*ir, uv, nmr*)

Lichtenthaler, F.W. *et al.*, *Tet. Lett.*, 1975, 3527, (*synth, ir, uv, nmr*)

Dolak, L., *J. Antibiot.*, 1979, **32**, 1364, (*cmr*)

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