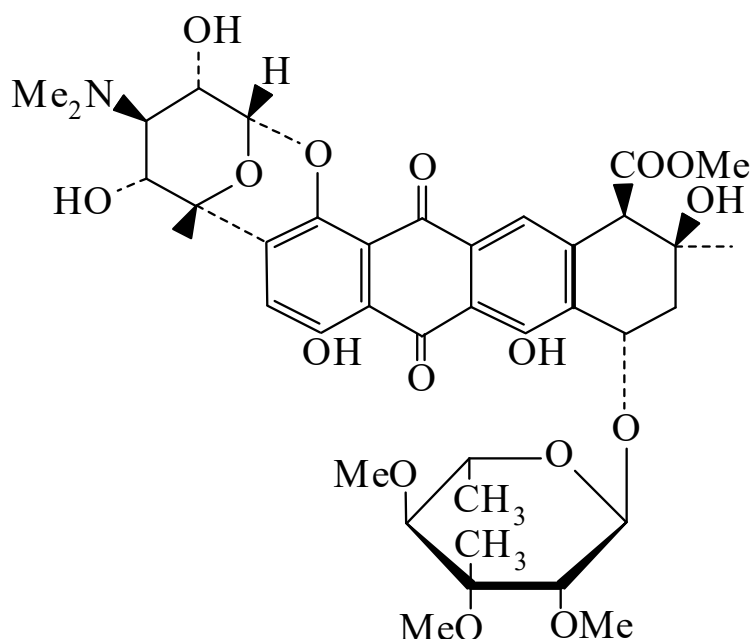




>>Entry Name: Nogalamycin, 8Cl, INN, USAN

Synonym(s): NSC 70845. U 15167. Antibiotic U 15167



CAS Registry Number: 1404-15-5

Molecular Formula: C₃₉H₄₉NO₁₆

Molecular Weight: 787.813

Accurate Mass: 787.305139

Percentage Composition: C 59.46%; H 6.27%; N 1.78%; O 32.49%

Biological Source: Isol. from *Streptomyces nogalater* var. *nogalater*

Use/Importance: Antineoplastic antibiotic, also highly active against gram-positive bacteria

Physical Description: Orange-red solid (MeOH)

Melting Point: Mp 195-196 dec.°

Optical Rotation: $[\alpha]_D^{25} +479$ (CHCl₃)

pKa Value: pK_a 7.45 (25°, 60% EtOH aq.)

Calculated Log P Data: Log P 0.09 (uncertain value) (calc)

UV: [acid] $\lambda_{\max}$ 235 (ε); 258 (ε); 290 (ε); 471 (ε) (EtOH/HCl) (Derep) [base] $\lambda_{\max}$ 239 (ε 46200); 259 (ε); 288 (ε 8200); 327 (ε 4700); 550 (ε 12600) (EtOH/NaOH) (Derep)
[neutral] $\lambda_{\max}$ 236 (ε 52400); 258 (ε 24700); 292 (ε 9870); 390 (ε 4070); 480 (ε 15600) (EtOH) (Derep)

Other Data: Interacts with DNA by intercalation. Has the 7*S*,9*S*,10*R*-config., opposite to other anthracyclines

Hazard & Toxicity: LD₅₀ (rat, ipr) 0.5 mg/kg

Sigma: N2019

References:

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