CAS Registry Number: 50-76-0
Related CAS Registry Numbers(s): 1402-43-3 1402-51-3 1402-58-0 54650-01-0

Molecular Formula: $C_{62}H_{86}N_{12}O_{16}$
Molecular Weight: 1255.432
Accurate Mass: 1254.628478
Percentage Composition: C 59.32%; H 6.90%; N 13.39%; O 20.39%

Biological Source: Isol. from *Actinomyces* spp.
Biological Use/Importance: Active against gram-positive bacteria and malignant neoplasms
Physical Description: Red rhomboids + $3H_2O$ (EtOH)
Melting Point: Mp 246-247°
Optical Rotation: $[\alpha]_D^{28}$ –315 (c, 0.25 in MeOH)
Calculated Log P Data: Log P 7.32 (uncertain value) (calc)
UV: [base] λ_{max} 288 (ε 12500); 342 (ε 21200); 445 (ε 5770) (pH 13/5 h) (Derep) [neutral] λ_{max} 240 (ε 30000); 426 (ε 21000); 427 (sh) (ε); 442 (ε 22300) (MeOH) (Derep)
Other Data: Intercalates DNA and can cause single strand breaks in DNA
Hazard & Toxicity: Skin irritant. Dermatitis, gastrointestinal effects and bone-marrow depression reported when used therapeutically. LD_{50} (rat, orl) 7.2 mg/kg. Exp. carcinogenic, reprod. and teratogenic effects

Aldrich: 85625-8
Fluka: 1815
Sigma: D6049

>>**Derivative:** *N,N'*-Di-de-Me
Synonym(s): ***N,N'*-Didemethylactinomycin D.** Auranthin 3B

Molecular Formula: $C_{60}H_{82}N_{12}O_{16}$
Molecular Weight: 1227.379
Accurate Mass: 1226.597178
Percentage Composition: C 58.72%; H 6.73%; N 13.69%; O 20.86%
Biological Source: Prod. by *Streptomyces* sp.
Physical Description: Orange-yellow powder
Solubility: Sol. MeOH, C_6H_6; poorly sol. H_2O, hexane
UV: [neutral] λ_{max} 240 (); 442 () (MeOH)

References: