



Molecular Weight: 855.074
Accurate Mass: 854.514008
Percentage Composition: C 61.81%; H 8.72%; N 3.28%; O 26.20%
Biological Source: Prod. by *Streptomyces ambofaciens*
Physical Description: Powder
Solubility: BERDY SOL: Sol. MeOH, CHCl₃; poorly sol. H₂O
UV: [neutral] $\lambda_{\max}$ 226 () (MeOH) (Berdy)
Other Data: Incorrect struct. in CA to which CAS no. refers

>>**Derivative:** Mixt. with Foromacidins B and C
Synonym(s): **Spiramycin**, BAN, INN, USAN. Foromacidin. NSC 55926. Many other names

CAS Registry Number: 8025-81-8

Molecular Formula: C₄₃H₇₄N₂O₁₄
Molecular Weight: 843.063
Accurate Mass: 842.514008
Percentage Composition: C 61.26%; H 8.85%; N 3.32%; O 26.57%
Biological Use/Importance: Antibiotic complex
Optical Rotation: $[\alpha]_D^{20}$ -80 (MeOH)
Hazard & Toxicity: Gastro-intestinal and skin hypersensitivity reactions reported when used therapeutically. LD₅₀ (rat, orl) 3550 mg/kg. Exp. reprod. effects
Fluka: 85626
Sigma: S9132

>>**Derivative:** 3,4"-Di-Ac
Synonym(s): 4"-Acetylspiramycin B. 3,4"-Diacetylforomacidin A

CAS Registry Number: 87111-42-0

Molecular Formula: C₄₇H₇₈N₂O₁₆
Molecular Weight: 927.137
Accurate Mass: 926.535138
Percentage Composition: C 60.89%; H 8.48%; N 3.02%; O 27.61%
Biological Source: Prod. by *Streptomyces spiramyceticus* F21

>>**Derivative:** 4"-(3-Methylbutanoyl)

CAS Registry Number: 267662-22-6

Molecular Formula: C₄₈H₈₂N₂O₁₅
Molecular Weight: 927.18
Accurate Mass: 926.571523
Percentage Composition: C 62.18%; H 8.91%; N 3.02%; O 25.88%
Biological Source: Prod. by *Streptomyces spiramyceticus* F21

>>**Derivative:** 3-Propanoyl, 4"-Ac
Synonym(s): 4"-Acetylspiramycin C

CAS Registry Number: 112501-15-2

Molecular Formula: C₄₈H₈₀N₂O₁₆
Molecular Weight: 941.164
Accurate Mass: 940.550788
Percentage Composition: C 61.26%; H 8.57%; N 2.98%; O 27.20%
Biological Source: Prod. by *Streptomyces spiramyceticus* F21

>>**Derivative:** 4"-Propanoyl, 3-Ac
Synonym(s): 4"-Propanoylsipramycin B. 4"-Propionylspiramycin B

CAS Registry Number: 145191-83-9

Molecular Formula: C₄₈H₈₀N₂O₁₆
Molecular Weight: 941.164
Accurate Mass: 940.550788
Percentage Composition: C 61.26%; H 8.57%; N 2.98%; O 27.20%
Biological Source: Prod. by *Streptomyces spiramyceticus* F21