



**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, CHCl<sub>3</sub>; poorly sol. H<sub>2</sub>O  
**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:** C<sub>43</sub>H<sub>74</sub>N<sub>2</sub>O<sub>14</sub>  
**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:** [ $\alpha$ ]<sub>D</sub><sup>20</sup> -80 (MeOH)  
**Hazard & Toxicity:** Gastro-intestinal and skin hypersensitivity reactions reported when used therapeutically. LD<sub>50</sub> (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:** C<sub>47</sub>H<sub>78</sub>N<sub>2</sub>O<sub>16</sub>  
**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:** C<sub>48</sub>H<sub>82</sub>N<sub>2</sub>O<sub>15</sub>  
**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:** C<sub>48</sub>H<sub>80</sub>N<sub>2</sub>O<sub>16</sub>  
**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:** C<sub>48</sub>H<sub>80</sub>N<sub>2</sub>O<sub>16</sub>  
**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