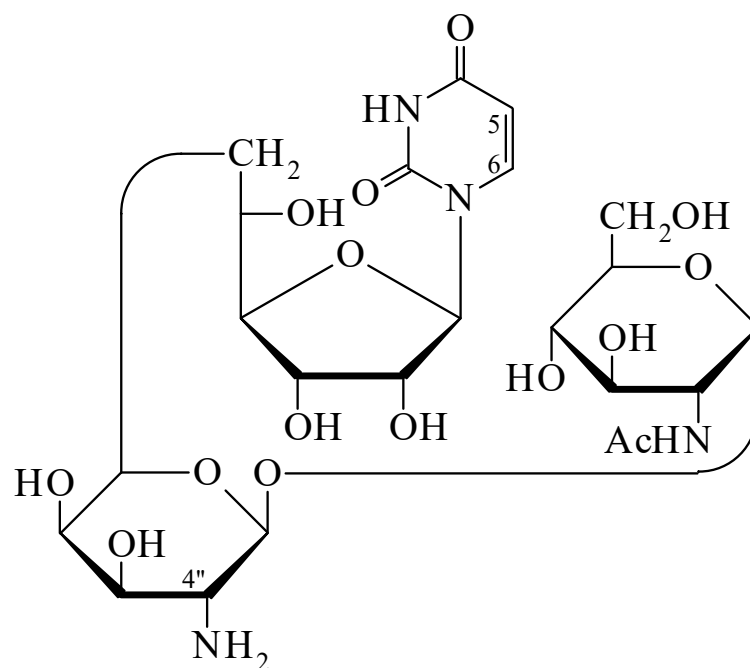




>>Entry Name: *N*-Deacyltunicamycin

Synonym(s): *N*-Deacylstreptovirudin. *N*-Deacylcorynetoxin



Related CAS Registry Numbers(s): 11089-65-9

Molecular Formula: C<sub>23</sub>H<sub>36</sub>N<sub>4</sub>O<sub>15</sub>

Molecular Weight: 608.555

Accurate Mass: 608.217721

Percentage Composition: C 45.39%; H 5.96%; N 9.21%; O 39.44%

General Statement: The closely related Tunicamycin, Streptovirudin and Corynetoxin complexes are all mixts. of *N*<sup>4''</sup>-acyl derivs. of the same parent struct.

Biological Source: Isol. from *Streptomyces lysosuperficus*, *Streptomyces griseoflavus*, *Streptomyces chartreusis* and *Bacillus cereus*. Corynetoxins are isol. from *Lolium rigidum* infected with *Corynebacterium rathayi*

Use/Importance: Inhibitors of *N*-acetylglucosamine lipids in prokaryotes, eukaryotes and viruses, show anticoccidial activity

>>Derivative: *N*<sup>4''</sup>-(10-Methyl-2-undecenoyl)

Synonym(s): Streptovirudin A<sub>2</sub>

CAS Registry Number: 51330-29-1

Molecular Formula: C<sub>35</sub>H<sub>56</sub>N<sub>4</sub>O<sub>16</sub>

Molecular Weight: 788.845

Accurate Mass: 788.369136

Percentage Composition: C 53.29%; H 7.16%; N 7.10%; O 32.45%

Physical Description: Needles (MeOH aq.)

Melting Point: Mp 250-252°

Optical Rotation: [α]<sub>D</sub><sup>22</sup> +69 (c, 0.5 in MeOH)

UV: [neutral] λ<sub>max</sub> 213 (ε 22000); 259 (ε 10200) (MeOH) (Derep)

>>Derivative: *N*<sup>4''</sup>-(10-Methyl-2-dodecenoyl)

Synonym(s): Streptovirudin B<sub>2</sub>

CAS Registry Number: 51330-31-5

Molecular Formula: C<sub>36</sub>H<sub>58</sub>N<sub>4</sub>O<sub>16</sub>

Molecular Weight: 802.871

Accurate Mass: 802.384786

Percentage Composition: C 53.86%; H 7.28%; N 6.98%; O 31.88%

Physical Description: Powder

Optical Rotation: [α]<sub>D</sub><sup>22</sup> +67 (c, 0.5 in MeOH)

Solubility: BERDY SOL: Sol. MeOH, Py, bases; fairly sol. EtOH, butanol; poorly sol. Me<sub>2</sub>CO, hexane

UV: [neutral] λ<sub>max</sub> 213 (ε 22000); 259 (ε 10200) (MeOH) (Derep) [neutral] λ<sub>max</sub> 212 (E1%/1cm 290); 259 (E1%/1cm 125) (MeOH) (Berdy)