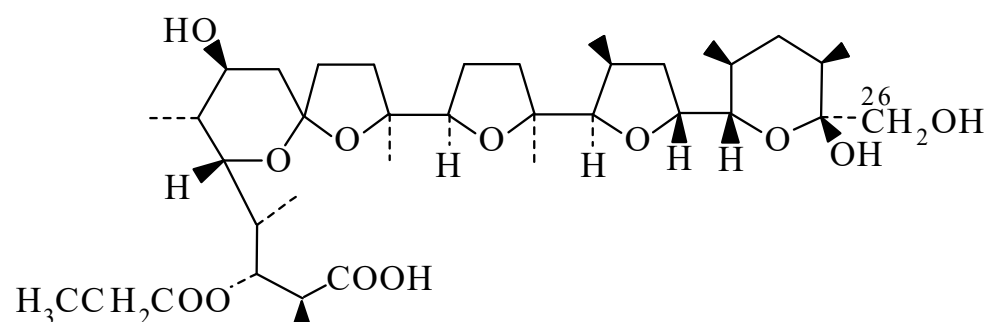




>>Entry Name: Laidlomycin, 9CI, BAN, INN

Synonym(s): 16-Deethyl-3-*O*-demethyl-16-methyl-3-*O*-(1-oxopropyl)monensin, 9CI



CAS Registry Number: 56283-74-0

Extra CAS Registry Numbers(s): 61489-98-3

Molecular Formula: C₃₇H₆₂O₁₂

Molecular Weight: 698.89

Accurate Mass: 698.42413

Percentage Composition: C 63.59%; H 8.94%; O 27.47%

Biological Source: Prod. by *Streptoverticillium eurocidicum*

Use/Importance: Ionophore, coccidiostat

Physical Description: Prisms (EtOAc)

Optical Rotation: [α]_D +53.2 (CHCl₃)

Solubility: BERDY SOL: Sol. AcOH, bases, Py, DMSO; poorly sol. hexane, H₂O

Calculated Log P Data: Log P 2.5 (calc)

UV: [neutral] λ_{max} (MeOH) (Berdy) [neutral] λ_{max} 220 (E1%/1cm 170) (EtOH) (Berdy)

Hazard & Toxicity: LD₅₀ (mus, ipr) 5 mg/kg ; BERDY HAZD : LD₅₀ (mus, ipr) 5 mg/kg , LD₅₀ (mus, ivn) 1 mg/kg , LD₅₀ (mus, scu) 2.5 mg/kg

>>Derivative: Na salt

Melting Point: Mp 227-229°

>>Derivative: 26-Deoxy

Synonym(s): 26-Deoxylaidlomycin. Antibiotic TM 611A. TM 611A

CAS Registry Number: 102674-88-4

Extra CAS Registry Numbers(s): 121421-16-7

Molecular Formula: C₃₇H₆₂O₁₁

Molecular Weight: 682.89

Accurate Mass: 682.429215

Percentage Composition: C 65.08%; H 9.15%; O 25.77%

Biological Source: Prod. by *Streptoverticillium eurocidicum* and *Streptoverticillium olivoreticuli*

Use/Importance: Active against gram-positive bacteria and coccidia

Optical Rotation: [α]_D +29.1 (CHCl₃)

>>Derivative: 26-Propanoyl, K salt

Synonym(s): Laidlomycin propionate potassium, USAN. Cattlyst. RS11988

CAS Registry Number: 84799-02-0

Molecular Formula: C₄₀H₆₅KO₁₃

Molecular Weight: 793.044

Accurate Mass: 792.406227

Percentage Composition: C 60.58%; H 8.26%; K 4.93%; O 26.23%

Use/Importance: Coccidiostatic; growth promotor (veterinary)

Melting Point: Mp 190-192°

References:

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Clark, R.D. *et al.*, *J. Antibiot.*, 1982, **35**, 1527, (*deriv*)

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Grafe, U. *et al.*, *J. Basic Microbiol.*, 1989, **29**, 149, (*26-Deoxylaidlomycin*)

Havlicek, V. *et al.*, *J. Mass Spectrom.*, 1995, **30**, 1089-1094, (*ms*)

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