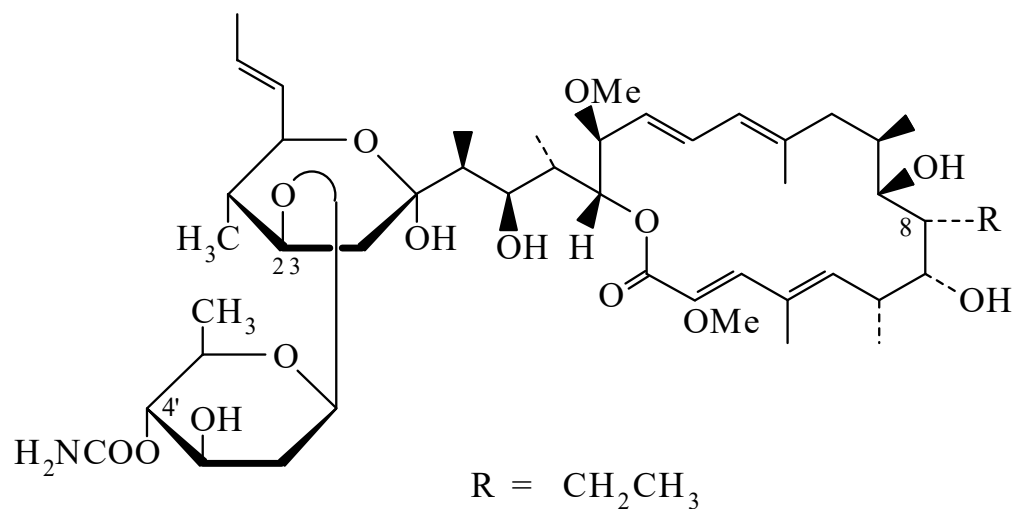




>>Entry Name: Concanamycin A, 9CI

Synonym(s): Folimycin. A661-I. S 45A. X 4357A. TAN 1323B. Antibiotic A661I. Antibiotic S 45A. Antibiotic X 4357A. Antibiotic TAN 1323B



CAS Registry Number: 80890-47-7

Extra CAS Registry Numbers(s): 98932-70-8

Molecular Formula: $\text{C}_{46}\text{H}_{75}\text{NO}_{14}$

Molecular Weight: 866.097

Accurate Mass: 865.518759

Percentage Composition: C 63.79%; H 8.73%; N 1.62%; O 25.86%

General Statement: Macrolide antibiotic

Biological Source: Prod. by *Streptomyces diastatochromogenes* and *Streptomyces neyagawaensis*

Use/Importance: Inhibits the proliferation of mouse splenic lymphocytes. Exhibits antifungal and larvicidal props.

Physical Description: Thin plates (MeOH aq.)

Melting Point: Mp 169-171° (162-163.5°)

Optical Rotation: $[\alpha]_{\text{D}}^{25} -21.7$ (c, 1 in MeOH)

UV: [neutral] λ_{max} 245 (ϵ 31500); 285 (ϵ 15000) (isopropanol) (Derep)

Sigma: C9705

>>Derivative: 4'-Decarbamoyl

Synonym(s): Concanamycin C. S 45C. TAN 1323A. Antibiotic S 45C. Antibiotic TAN 1323A

CAS Registry Number: 81552-34-3

Molecular Formula: $\text{C}_{45}\text{H}_{74}\text{O}_{13}$

Molecular Weight: 823.072

Accurate Mass: 822.512945

Percentage Composition: C 65.67%; H 9.06%; O 25.27%

Biological Source: From *Streptomyces diastatochromogenes*

Use/Importance: Active against fungi and yeasts

Physical Description: Thin plates (MeOH)

Melting Point: Mp 156-157.5° (153-155°)

Optical Rotation: $[\alpha]_{\text{D}}^{25} -22.6$ (c, 0.5 in 2-propanol)

Solubility: BERDY SOL: Sol. MeOH, CHCl_3 ; poorly sol. hexane

UV: [neutral] λ_{max} 245 (ϵ 40800); 285 (ϵ 19700) (isopropanol) (Derep) [neutral] λ_{max} 245 (); 284 () (MeOH) (Berdy) [neutral] λ_{max} 245 (ϵ 40800); 285 (ϵ 19700) (2-propanol) (Berdy)

Other Data: Similar to Scopathricin [HRD32-L](#)

Hazard & Toxicity: BERDY HAZD : LD_{50} (mus, ipr) .5.4 mg/kg

>>Derivative: 23-O-Deglycosyl

Synonym(s): Concanamycin F. Concanolide A. FD 894. Antibiotic FD 894

CAS Registry Number: 144539-92-4

Molecular Formula: $\text{C}_{39}\text{H}_{64}\text{O}_{10}$

Molecular Weight: 692.929

Accurate Mass: 692.44995

Percentage Composition: C 67.60%; H 9.31%; O 23.09%

Biological Source: From *Streptomyces graminofaciens* and *Streptomyces* sp. A1509

Physical Description: Pale yellow cryst.

UV: [neutral] λ_{max} 245 (ϵ 24700); 285 (ϵ 14000) (EtOH) (Derep)