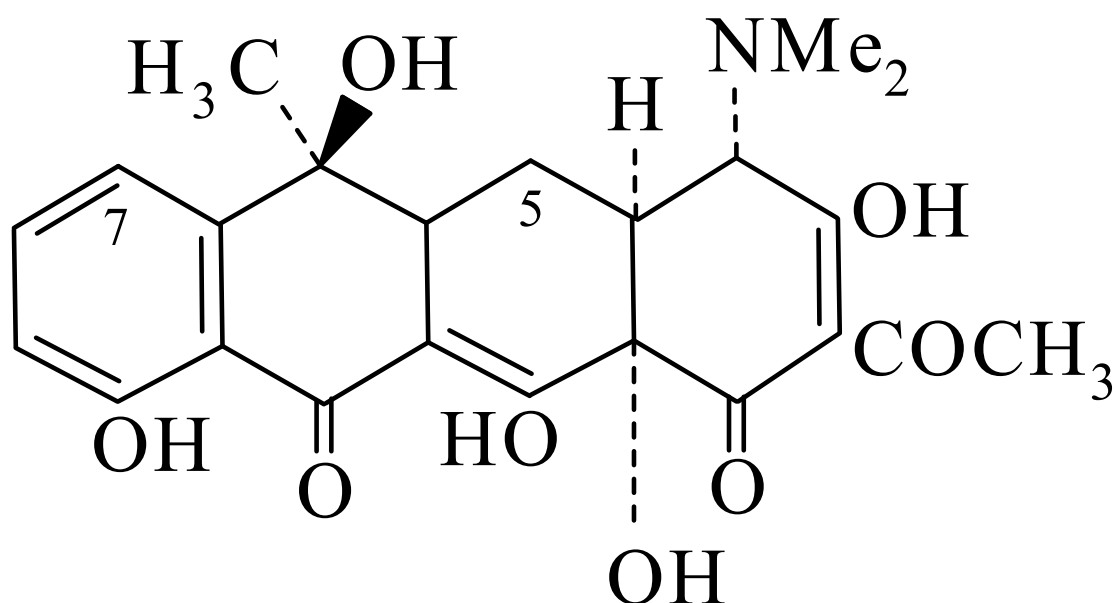




>>Entry Name: 2-Acetyl-2-decarboxamidotetracycline

Synonym(s): 2-Acetyl-4-(dimethylamino)-4a,5a,6,12a-tetrahydro-3,6,10,12,12a-pentahydroxy-6-methyl-1,11(4H,5H)-naphthacenedione, 9Cl



CAS Registry Number: 6542-44-5

Molecular Formula:  $C_{23}H_{25}NO_8$

Molecular Weight: 443.452

Accurate Mass: 443.158019

Percentage Composition: C 62.30%; H 5.68%; N 3.16%; O 28.86%

Biological Source: Metab. of *Streptomyces psammoticus*

Use/Importance: Shows antibiotic props.

Physical Description: Yellow cryst. (hydrate)

Melting Point: Mp 178-185 dec.°

Optical Rotation:  $[\alpha]_D -125$  (c, 1 in 0.5N HCl/MeOH)

UV: [acid]  $\lambda_{max}$  220 (); 276 (E1%/1cm 312); 359 (E1%/1cm 300) (MeOH-HCl) (Berdy) [base]  $\lambda_{max}$  270 (E1%/1cm 386); 382 (E1%/1cm 367) (MeOH-NAOH) (Berdy)

>>Derivative: 5-Hydroxy

Synonym(s): 2-Acetyl-2-decarboxamidooxytetracycline. 2-Acetyl-4-(dimethylamino)-4a,5a,6,12a-tetrahydro-3,5,6,10,12,12a-hexahydroxy-6-methyl-1,11(4H,5H)-naphthacenedione, 9Cl. Terramycin X