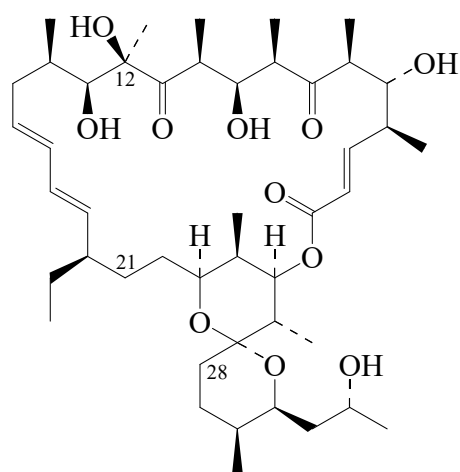




>>Entry Name: Oligomycin A, 9Cl, 8Cl



CAS Registry Number: 579-13-5

Related CAS Registry Numbers(s): 1404-19-9

Molecular Formula: $C_{45}H_{74}O_{11}$

Molecular Weight: 791.073

Accurate Mass: 790.523115

Percentage Composition: C 68.32%; H 9.43%; O 22.25%

Biological Source: Isol. from *Streptomyces diastatochromogenes*

Biological Use/Importance: Antifungal agent

Physical Description: Cryst. (Et₂O/petrol)

Melting Point: Mp 140-141°. Mp 150-151° (dimorph.)

Optical Rotation: $[\alpha]_D^{23} -54.5$ (c, 4.4 in dioxan)

Solubility: BERDY SOL: Sol. MeOH, Et₂O; poorly sol. H₂O, hexane

UV: [neutral] λ_{max} 225 (ϵ 38700); 232 (ϵ 36300); 241 (sh) (ϵ 22100) (MeOH) (Derep) [neutral] λ_{max} 220 (ϵ 34000); 225 (ϵ 37400); 226 (E1%/1cm 490); 232 (E1%/1cm 460);

241 (E1%/1cm 280); 242 (ϵ 18500); 275 (ϵ 130); 290 () (MeOH) (Berdy)

Hazard & Toxicity: LD₅₀ (mus, ipr) 1.5 mg/kg ; BERDY HAZD : LD₅₀ (mus, ipr) 1.5 mg/kg

Fluka: 75351

Sigma: O5001

>>Derivative: 12,13-Di-Ac

Molecular Formula: $C_{49}H_{78}O_{13}$

Molecular Weight: 875.147

Accurate Mass: 874.544245

Percentage Composition: C 67.25%; H 8.98%; O 23.77%

Physical Description: Cryst. (CCl₄/petrol)

Melting Point: Mp 112-113°

Optical Rotation: $[\alpha]_D^{24} -86.1$ (c, 1.74 in EtOH)

>>Derivative: 12-Deoxy

Synonym(s): Oligomycin C. 12-Deoxyoligomycin A, 9Cl

CAS Registry Number: 11052-72-5

Molecular Formula: $C_{45}H_{74}O_{10}$

Molecular Weight: 775.074

Accurate Mass: 774.5282

Percentage Composition: C 69.73%; H 9.62%; O 20.64%

Biological Source: Isol. from *Streptomyces diastatochromogenes*

Biological Use/Importance: Antifungal agent

Physical Description: Rods (Et₂O/petrol)

Melting Point: Mp 198-200°

Optical Rotation: $[\alpha]_D^{23} -80.7$ (c, 3.7 in dioxan)

Solubility: BERDY SOL: Sol. MeOH, Et₂O; poorly sol. H₂O, hexane

UV: [neutral] λ_{max} 225 (ϵ 38700); 232 (ϵ 36300); 241 (sh) (ϵ 22100) (MeOH) (Derep) [neutral] λ_{max} 219 (ϵ 32700); 224 (ϵ 33500); 225 (ϵ 23200); 231 (ϵ 29300); 232 (ϵ

21600); 275 (E1%/1cm 142) (MeOH) (Berdy)

Hazard & Toxicity: LD₅₀ (mus, ipr) 8.3 mg/kg ; BERDY HAZD : LD₅₀ (mus, ipr) 8.3 mg/kg