



Hazard & Toxicity: BERDY HAZD : LD₅₀ (mus, ipr) .313 mg/kg

Sigma: A2836

>>Derivative: 3-*O*-(2-Methylpropanoyl)

Synonym(s): Ansamitocin P3. C 15003P3. Antibiotic C 15003P3

CAS Registry Number: 66584-72-3

Molecular Formula: C₃₂H₄₃ClN₂O₉

Molecular Weight: 635.152

Accurate Mass: 634.26571

Percentage Composition: C 60.51%; H 6.82%; Cl 5.58%; N 4.41%; O 22.67%

Biological Source: From *Nocardia* sp.

Use/Importance: Active against fungi and tumours. Potent antiprotozoal agent

Physical Description: Cryst. (EtOAc)

Melting Point: Mp 190-192 dec.°

Optical Rotation: [α]_D -136 (c, 0.375 in CHCl₃)

Solubility: BERDY SOL: Sol. MeOH, EtOAc, THF, DMSO, CHCl₃; fairly sol. C₆H₆, Et₂O; poorly sol. H₂O, hexane

UV: [neutral] $\lambda_{\max}$ 233 (ϵ 30300); 240 (sh) (ϵ 28500); 252 (ϵ 27600); 280 (ϵ 5750); 288 (ϵ 5700) (MeOH) (Derep) [neutral] $\lambda_{\max}$ 232 (); 233 (ϵ 30250); 252 (ϵ 27640); 280 (ϵ 5750); 288 (ϵ 5700) (MeOH) (Berdy)

Hazard & Toxicity: Potent mutagen ; BERDY HAZD : LD₅₀ (mus, ipr) .313 mg/kg

>>Derivative: 3-*O*-(3-Methylbutanoyl)

Synonym(s): Ansamitocin P4. C 15003P4. Antibiotic C 15003P4

CAS Registry Number: 66547-10-2

Molecular Formula: C₃₃H₄₅ClN₂O₉

Molecular Weight: 649.179

Accurate Mass: 648.28136

Percentage Composition: C 61.06%; H 6.99%; Cl 5.46%; N 4.32%; O 22.18%

Biological Source: From *Nocardia* sp.

Use/Importance: Active against fungi and tumours. Potent antiprotozoal agent

Physical Description: Cryst. (EtOAc)

Melting Point: Mp 177-180 dec.°

Optical Rotation: [α]_D -142 (c, 0.52 in CHCl₃)

Solubility: BERDY SOL: Sol. MeOH, DMSO, THF, EtOAc, CHCl₃; fairly sol. C₆H₆, Et₂O; poorly sol. H₂O, hexane

UV: [neutral] $\lambda_{\max}$ 233 (ϵ 30300); 240 (sh) (ϵ 28500); 252 (ϵ 27600); 280 (ϵ 5750); 288 (ϵ 5700) (MeOH) (Derep) [neutral] $\lambda_{\max}$ 233 (ϵ 29900); 252 (ϵ 28240); 280 (ϵ 5712); 288 (ϵ 5680) (MeOH) (Berdy)

Hazard & Toxicity: BERDY HAZD : LD₅₀ (mus, ipr) .313 mg/kg

>>Derivative: 3-*O*-(3-Hydroxy-3-methylbutanoyl)

Synonym(s): 3-(3-Hydroxyisovaleroyl)maytansinol. C 15003 P 4 β HY. Antibiotic C 15003 P 4 β HY

CAS Registry Number: 78619-41-7

Molecular Formula: C₃₃H₄₅ClN₂O₁₀

Molecular Weight: 665.179

Accurate Mass: 664.276275

Percentage Composition: C 59.59%; H 6.82%; Cl 5.33%; N 4.21%; O 24.05%

Biological Source: From *Nocardia* sp.

Use/Importance: Weakly active against *T. pyriformis*

Physical Description: Needles (EtOAc)

Melting Point: Mp 201-203 dec.°

UV: [neutral] $\lambda_{\max}$ 231 (ϵ 30100); 251 (ϵ 27500); 280 (ϵ 5650); 288 (ϵ 5630) (MeOH) (Berdy)

>>Derivative: 3-*O*-(3-Hydroxy-3-methylbutanoyl), *N*-de-Me

Synonym(s): *N*-Demethyl-3-(3-hydroxyisovaleroyl)maytansinol. C 15003 PND 4 β HY. Antibiotic C 15003 PND 4 β HY

CAS Registry Number: 78619-43-9