**Hazard & Toxicity:** BERDY HAZD : $LD_{50}$ (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:** $C_{32}H_{43}ClN_2O_9$
**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:** $[\alpha]_D$ –136 (c, 0.375 in $CHCl_3$)
**Solubility:** BERDY SOL: Sol. MeOH, EtOAc, THF, DMSO, $CHCl_3$; fairly sol. $C_6H_6$, $Et_2O$; poorly sol. $H_2O$, 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 : $LD_{50}$ (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:** $C_{33}H_{45}ClN_2O_9$
**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:** $[\alpha]_D$ –142 (c, 0.52 in $CHCl_3$)
**Solubility:** BERDY SOL: Sol. MeOH, DMSO, THF, EtOAc, $CHCl_3$; fairly sol. $C_6H_6$, $Et_2O$; poorly sol. $H_2O$, 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 : $LD_{50}$ (mus, ipr) .313 mg/kg

>>**Derivative:** 3-*O*-(3-Hydroxy-3-methylbutanoyl)
**Synonym(s): 3-(3-Hydroxyisovaleroyl)maytansinol.** C 15003 P 4 βHY. Antibiotic C 15003 P 4 βHY

**CAS Registry Number:** 78619-41-7

**Molecular Formula:** $C_{33}H_{45}ClN_2O_{10}$
**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 βHY. Antibiotic C 15003 PND 4 βHY

**CAS Registry Number:** 78619-43-9