



>>Entry Name: Maytansinol

Synonym(s): 3-De[2-(acetylmethylamino)-1-oxopropoxy]-3-hydroxymaytansine, 9Cl. Ansamitocin P₀. C 15003Po. Antibiotic C 15003Po

CAS Registry Number: 57103-68-1

As Maytansine, [BDV06-K](#) with
R = H

Molecular Formula: C₂₈H₃₇ClN₂O₈

Molecular Weight: 565.062

Accurate Mass: 564.223845

Percentage Composition: C 59.52%; H 6.60%; Cl 6.27%; N 4.96%; O 22.65%

Biological Source: Constit. of *Putterlickia verrucosa* (Celastraceae)

Use/Importance: Shows pronounced antileukaemic props. No antiprotozoal activity

Melting Point: Mp 173-174.5°

Optical Rotation: $[\alpha]_D^{23}$ -309 (c, 0.11 in CHCl₃)

>>Derivative: 3-Ac

Synonym(s): Maytanacine. Ansamitocin P1. C 15003P1. Antibiotic C 15003P1. 3-O-Acetylmaytansinol

CAS Registry Number: 57103-69-2

Molecular Formula: C₃₀H₃₉ClN₂O₉

Molecular Weight: 607.099

Accurate Mass: 606.23441

Percentage Composition: C 59.35%; H 6.47%; Cl 5.84%; N 4.61%; O 23.72%

Biological Source: Constit. of *Putterlickia verrucosa* (Celastraceae) and *Nocardia* spp.

Use/Importance: Active against fungi, tumours, dermatophytes and protozoa

Physical Description: Cryst. (EtOAc)

Melting Point: Mp 234-237°

Optical Rotation: $[\alpha]_D$ -121 (c, 0.25 in CHCl₃)

UV: [neutral] $\lambda_{\max}$ 233 (ε 30300); 242 (sh) (ε 28000); 252 (ε 27900); 281 (ε 5360); 289 (ε 5360) (EtOH) (Derep)

>>Derivative: 3-O-Propanoyl

Synonym(s): Ansamitocin P2. 2'-De(acetylmethylamino)maytansine, 9Cl. C 15003P2. Antibiotic C 15003P2

CAS Registry Number: 57103-70-5

Molecular Formula: C₃₁H₄₁ClN₂O₉

Molecular Weight: 621.126

Accurate Mass: 620.25006

Percentage Composition: C 59.95%; H 6.65%; Cl 5.71%; N 4.51%; O 23.18%

Biological Source: From *Nocardia* sp.

Use/Importance: Active against fungi and tumours

Physical Description: Cryst. (EtOAc)

Melting Point: Mp 188-190 dec.°

Optical Rotation: $[\alpha]_D$ -127 (c, 0.35 in CHCl₃)

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

UV: [neutral] $\lambda_{\max}$ 233 (ε 30300); 242 (sh) (ε 28000); 252 (ε 27900); 281 (ε 5360); 289 (ε 5360) (EtOH) (Derep) [neutral] $\lambda_{\max}$ 233 (ε 30240); 252 (ε 27650); 280 (ε 5740); 288 (ε 5710) (MeOH) (Berdy)

>>Derivative: 3-O-Butanoyl

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

CAS Registry Number: 66547-09-9