



Synonym(s): *N*-Methyltaxol C

CAS Registry Number: 153083-53-5

Molecular Formula: C₄₇H₅₉NO₁₄

Molecular Weight: 861.981

Accurate Mass: 861.393559

Percentage Composition: C 65.49%; H 6.90%; N 1.62%; O 25.99%

Biological Source: From roots of *Taxus x media* cv Hicksii (Taxaceae)

Physical Description: Cryst. (MeOAc/hexane)

Melting Point: Mp 225-228 dec.°

Optical Rotation: $[\alpha]_{\text{D}}^{20} -52.7$ (c, 1.0 in CHCl₃)

UV: [neutral] λ_{max} 227 (ε 29800); 273 (ε 1700) (MeOH) (Derep) [neutral] λ_{max} 223 (ε 16980) (MeOH) (Berdy)

>> **Derivative:** *N*-Debenzoyl, *N*-tigloyl

Synonym(s): Cephalomannine. Taxol B

CAS Registry Number: 71610-00-9

Molecular Formula: C₄₅H₅₃NO₁₄

Molecular Weight: 831.912

Accurate Mass: 831.346609

Percentage Composition: C 64.97%; H 6.42%; N 1.68%; O 26.92%

Biological Source: Alkaloid from *Taxus wallichiana*

Biological Use/Importance: Antileukaemic agent

Optical Rotation: $[\alpha]_{\text{D}}^{23} -41$ (c, 0.39 in MeOH)

UV: [neutral] λ_{max} 225 (ε 25000); 273 (ε 1700) (MeOH) (Derep)

Other Data: Abs. config. of side-chain not certain

>> **Derivative:** *N*-Debenzoyl, *N*-tigloyl, 7-*O*-β-D-xylopyranoside

Synonym(s): 7-Xylosylcephalomannine. 7-Xylosyltaxol B

CAS Registry Number: 90352-19-5

Molecular Formula: C₅₀H₆₁NO₁₈

Molecular Weight: 964.028

Accurate Mass: 963.388869

Percentage Composition: C 62.30%; H 6.38%; N 1.45%; O 29.87%

Biological Source: Constit. of *Taxus baccata*

Optical Rotation: $[\alpha]_{\text{D}} -26$ (Py)

UV: [neutral] λ_{max} 227 (ε 29800); 273 (ε 1700) (MeOH) (Derep)

>> **Derivative:** *N*-Debenzoyl, *N*-tigloyl, 10-de-Ac

Synonym(s): 10-Deacetylcephalomannine

CAS Registry Number: 76429-85-1

Molecular Formula: C₄₃H₅₁NO₁₃

Molecular Weight: 789.875

Accurate Mass: 789.336044

Percentage Composition: C 65.39%; H 6.51%; N 1.77%; O 26.33%

Biological Source: Isol. from *Taxus wallichiana*

Physical Description: Amorph.

Solubility: Sol. H₂O

UV: [neutral] λ_{max} 227 (ε 29800); 273 (ε 1700) (MeOH) (Derep)