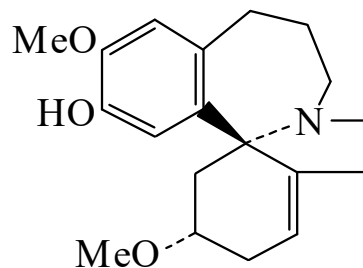




>>Entry Name: Taxodine

Synonym(s): (3 β)-1,6-Didehydro-3,16-dimethoxy-*C*-homoerythrinan-15-ol, 9Cl. Alkaloid B. 3-Epischellhammericine B. Alkaloid V. 2,7-Dihydrohomoerysovine



CAS Registry Number: 24204-37-3

Molecular Formula: C₁₉H₂₅NO₃

Molecular Weight: 315.411

Accurate Mass: 315.183444

Percentage Composition: C 72.35%; H 7.99%; N 4.44%; O 15.22%

Biological Source: A major alkaloid from *Schelhammera undulata*. Also isol. from *Schelhammera pedunculata*, *Cephalotaxus harringtonia* var. *harringtonia*, *Cephalotaxus drupacea*, *Cephalotaxus oliveri*, *Athrotaxis cupressoides*, *Athrotaxis selaginoides* and *Athrotaxis laxifolia* (Liliaceae, Cephalotaxaceae, Taxodiaceae)

Physical Description: Needles (Me₂CO)

Melting Point: Mp 152-153°

Optical Rotation: [α]_D +111 (c, 0.09 in CHCl₃)

>>Derivative: Me ether

Synonym(s): 2,7-Dihydrohomoerysotrine. *O*-Methyltaxodine. *O*-Methyl-3-epischellhammericine B

CAS Registry Number: 51095-85-3

Molecular Formula: C₂₀H₂₇NO₃

Molecular Weight: 329.438

Accurate Mass: 329.199094

Percentage Composition: C 72.92%; H 8.26%; N 4.25%; O 14.57%

Biological Source: Minor alkaloid from leaves, stems and roots of *Cephalotaxus harringtonia* var. *harringtonia* and the leaves of *Phelline* sp. aff. *Phelline lucida*, *Dysoxylum lenticellare* and *Cephalotaxus wilsoniana* (Cephalotaxaceae, Phellinaceae, Meliaceae)

Physical Description: Noncryst.

Optical Rotation: [α]_D +122 (c, 0.50 in CHCl₃)

>>Derivative: 3-Epimer

Synonym(s): Schellhammericine B

CAS Registry Number: 30633-33-1

Molecular Formula: C₁₉H₂₅NO₃

Molecular Weight: 315.411

Accurate Mass: 315.183444

Percentage Composition: C 72.35%; H 7.99%; N 4.44%; O 15.22%

Biological Source: Minor alkaloid from *Cephalotaxus harringtonia* var. *harringtonia* (Cephalotaxaceae)

Optical Rotation: [α]_D +76 (c, 0.40 in CHCl₃)

Other Data: Not obt. pure. The struct. of this alkaloid has not been proven and it could be the 16-hydroxy-15-methoxy isomer. It has, however, been registered by *CA* with the 16-methoxy struct.

>>Derivative: 3-Epimer, Me ether

Synonym(s): 3-Epi-2,7-dihydrohomoerysotrine. *O*-Methylschellhammericine B

CAS Registry Number: 38750-53-7

Molecular Formula: C₂₀H₂₇NO₃

Molecular Weight: 329.438

Accurate Mass: 329.199094

Percentage Composition: C 72.92%; H 8.26%; N 4.25%; O 14.57%

Biological Source: Minor alkaloid from leaves, stems and roots of *Cephalotaxus harringtonia* var. *harringtonia* (Cephalotaxaceae)

Optical Rotation: [α]_D +118 (c, 0.58 in CHCl₃)

References: