



Biological Source: Constit. of *Virola elongata*
Physical Description: Resinous solid
Optical Rotation: $[\alpha]_D^{25} -20.7$ (c, 1.5 in CHCl_3)

>>**Derivative:** Penta-Me ether
Synonym(s): Thujaplicatin trimethyl ether

Molecular Formula: $\text{C}_{23}\text{H}_{28}\text{O}_7$
Molecular Weight: 416.47
Accurate Mass: 416.183505
Percentage Composition: C 66.33%; H 6.78%; O 26.89%
Biological Source: Constit. of *Piper cubeba*
Physical Description: Cryst. (Et_2O)
Melting Point: Mp 102-103°
Optical Rotation: $[\alpha]_D^{24} -37.4$ (c, 0.64 in CHCl_3)

>>**Derivative:** 3',4'-Methylene, 3,4-di-Me ether
Synonym(s): 5-*O*-Demethylyatein

Molecular Formula: $\text{C}_{21}\text{H}_{22}\text{O}_7$
Molecular Weight: 386.401
Accurate Mass: 386.136555
Percentage Composition: C 65.28%; H 5.74%; O 28.98%
Biological Source: Isol. from *Juniperus sabina*
Optical Rotation: $[\alpha]_D^{22} -10.3$

>>**Derivative:** 3',4'-Methylene, 3,4,5-tri-Me ether
Synonym(s): 3,4,5-Trimethoxy-3',4'-methylenedioxy lignan-9,9'-olide. **Yatein.** Deoxypodorhizol. 7-Deoxypodorhizone

CAS Registry Number: 40456-50-6

Molecular Formula: $\text{C}_{22}\text{H}_{24}\text{O}_7$
Molecular Weight: 400.427
Accurate Mass: 400.152205
Percentage Composition: C 65.99%; H 6.04%; O 27.97%

Physical Description: Glass
Optical Rotation: $[\alpha]_D^{20} -28.4$ (c, 0.32 in CHCl_3)

>>**Derivative:** 3,4:3',4'-Bis(methylene), 5-Me ether
Synonym(s): 5-Methoxy-3,4:3',4'-bis(methylenedioxy)lignan-9,9'-olide. **5-Methoxyhinokinin**

CAS Registry Number: 112448-63-2

Molecular Formula: $\text{C}_{21}\text{H}_{20}\text{O}_7$
Molecular Weight: 384.385
Accurate Mass: 384.120905
Percentage Composition: C 65.62%; H 5.24%; O 29.14%
Biological Source: Isol. from fruits of *Piper cubeba*
Physical Description: Viscous mass
Optical Rotation: $[\alpha]_D^{25} -37$ (c, 0.15 in CHCl_3)

>>**Derivative:** 3',4'-Methylene 3,4-di-Me ether, 5-*O*-β-D-glucopyranoside
Synonym(s): Wenchuanensin

Molecular Formula: $\text{C}_{27}\text{H}_{32}\text{O}_{12}$
Molecular Weight: 548.543
Accurate Mass: 548.18938
Percentage Composition: C 59.12%; H 5.88%; O 35.00%
Biological Source: Constit. of *Bupleurum wenchuanense*
Physical Description: Powder
Melting Point: Mp 90-92°
Optical Rotation: $[\alpha]_D -45$ (c, 0.1 in MeOH)