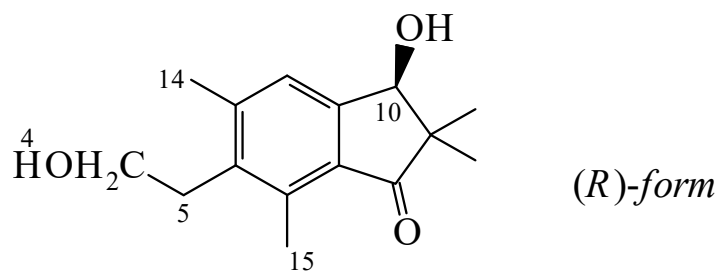




>>Entry Name: Pterodin D

Synonym(s): 2,3-Dihydro-3-hydroxy-6-(2-hydroxyethyl)-2,2,5,7-tetramethyl-1*H*-inden-1-one, 9Cl. 3-Hydroxy-6-(2-hydroxyethyl)-2,2,5,7-tetramethyl-1-indanone



Molecular Formula: C₁₅H₂₀O₃

Molecular Weight: 248.321

Accurate Mass: 248.141245

Percentage Composition: C 72.55%; H 8.12%; O 19.33%

>>Variant: (*R*)-form

CAS Registry Number: 61138-81-6

Molecular Formula: C₁₅H₂₀O₃

Molecular Weight: 248.321

Accurate Mass: 248.141245

Percentage Composition: C 72.55%; H 8.12%; O 19.33%

Biological Source: Isol. from various ferns incl. *Pteridium aquilinum*, *Coniogramme japonica*, *Dennstaedtia wilfordii*, *Dicksonia gigantea*

Physical Description: Cryst. (MeOH/CCl₄)

Melting Point: Mp 190-192°

Optical Rotation: $[\alpha]_{\text{D}}^{23} +6.3$ (c, 0.255 in MeOH)

>>Derivative: 4-*O*-β-D-Glucopyranoside

Molecular Formula: C₂₁H₃₀O₈

Molecular Weight: 410.463

Accurate Mass: 410.19407

Percentage Composition: C 61.45%; H 7.37%; O 31.18%

Biological Source: Constit. of *Cryptogramma crista*

Physical Description: Oil

Optical Rotation: $[\alpha]_{\text{D}} -8$

>>Derivative: 10-*O*-α-L-Arabinopyranoside

CAS Registry Number: 98474-71-6

Molecular Formula: C₂₀H₂₈O₇

Molecular Weight: 380.437

Accurate Mass: 380.183505

Percentage Composition: C 63.14%; H 7.42%; O 29.44%

Biological Source: Constit. of fronds of *Microlepia speluncae* and *Dennstaedtia smithii*

Physical Description: Needles (CHCl₃/MeOH)

Melting Point: Mp 164-166°

Optical Rotation: $[\alpha]_{\text{D}} +43.9$ (c, 1 in MeOH)

>>Derivative: 10-*O*-β-D-Glucopyranoside

CAS Registry Number: 84299-80-9

Molecular Formula: C₂₁H₃₀O₈

Molecular Weight: 410.463

Accurate Mass: 410.19407

Percentage Composition: C 61.45%; H 7.37%; O 31.18%

Biological Source: Constit. of fronds of *Pteridium aquilinum* subsp. *wightianum* and *Microlepia substrigosa*

Physical Description: Amorph. powder

Optical Rotation: $[\alpha]_{\text{D}}^{20} -22$ (c, 0.43 in MeOH)