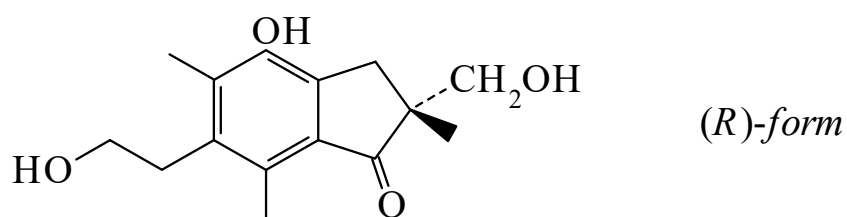




>>Entry Name: Onitisin

Synonym(s): Hydroxypterosin A



Molecular Formula: C₁₅H₂₀O₄

Molecular Weight: 264.321

Accurate Mass: 264.13616

Percentage Composition: C 68.16%; H 7.63%; O 24.21%

>>Variant: (R)-form

Molecular Formula: C₁₅H₂₀O₄

Molecular Weight: 264.321

Accurate Mass: 264.13616

Percentage Composition: C 68.16%; H 7.63%; O 24.21%

Physical Description: Cryst.

Melting Point: Mp 178-179°

Optical Rotation: [α]_D²⁵ -31.16 (c, 1.0 in MeOH)

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

Molecular Formula: C₂₁H₃₀O₉

Molecular Weight: 426.463

Accurate Mass: 426.188985

Percentage Composition: C 59.14%; H 7.09%; O 33.76%

Biological Source: Isol. from *Plagiogyria matsumureana*

Physical Description: Oil

Optical Rotation: [α]_D -6.7

>>Variant: (S)-form

CAS Registry Number: 53823-03-3

Molecular Formula: C₁₅H₂₀O₄

Molecular Weight: 264.321

Accurate Mass: 264.13616

Percentage Composition: C 68.16%; H 7.63%; O 24.21%

Biological Source: Isol. from *Dennstaedtia scabra* and from *Onychium siliculosum* (abs. config. not detd.)

Physical Description: Needles (MeOH)

Melting Point: Mp 184°

Optical Rotation: [α]_D -31.16 (c, 1 in MeOH)

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

Biological Source: Isol. from *Pteris inaequalis* var. *aequata*

Physical Description: Oil

Optical Rotation: [α]_D -16.94 (c, 0.61 in MeOH)

References:

Banerji, A. *et al.*, *Tet. Lett.*, 1974, 1369, (isol, struct)

Murakami, T. *et al.*, *Chem. Pharm. Bull.*, 1975, **23**, 1630; 1976, **24**, 1961, (isol, derivs)

Murakami, T. *et al.*, *Prog. Chem. Org. Nat. Prod.*, 1988, **54**, 1, (occur)