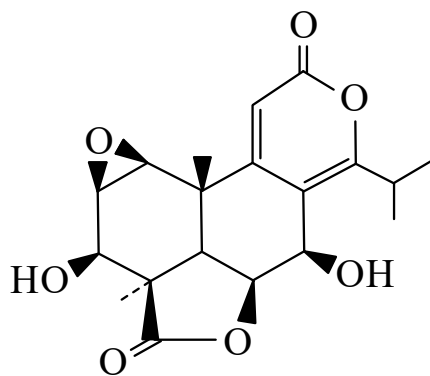




>>Entry Name: Nagilactone C



CAS Registry Number: 24338-53-2

Molecular Formula: C₁₉H₂₂O₇

Molecular Weight: 362.379

Accurate Mass: 362.136555

Percentage Composition: C 62.98%; H 6.12%; O 30.91%

Biological Source: Constit. of *Podocarpus nagi*

Use/Importance: Plant growth regulator, antitumour agent

Physical Description: Cryst.

Melting Point: Mp 290 dec.°

Optical Rotation: [α]_D +111

UV: [neutral] $\lambda_{\max}$ 300 (ϵ 5200) (MeOH) (Derep) [neutral] $\lambda_{\max}$ 212 (ϵ 9825); 300 (ϵ 5200); 320 (ϵ 5688) (EtOH) (Berdy)

>>Derivative: Di-Ac

Molecular Formula: C₂₃H₂₆O₉

Molecular Weight: 446.453

Percentage Composition: C 61.88%; H 5.87%; O 32.25%

Physical Description: Cryst.

Melting Point: Mp 280°

>>Derivative: 3-Deoxy

Synonym(s): 3-Deoxynagilactone C

Molecular Formula: C₁₉H₂₂O₆

Molecular Weight: 346.379

Accurate Mass: 346.14164

Percentage Composition: C 65.88%; H 6.40%; O 27.71%

Biological Source: Constit. of *Ileostylus micranthus* growing on *Podocarpus totara*

Physical Description: Needles (MeOH)

Melting Point: Mp 272 dec.°

Optical Rotation: [α]_D +83 (c, 0.16 in MeOH)

UV: [neutral] $\lambda_{\max}$ 220 (ϵ 9340); 300 (ϵ 9000) (MeOH) (Berdy)

>>Derivative: 3-Epimer

Synonym(s): 3-Epinagilactone C

Molecular Formula: C₁₉H₂₂O₇

Molecular Weight: 362.379

Accurate Mass: 362.136555

Percentage Composition: C 62.98%; H 6.12%; O 30.91%

Biological Source: Constit. of *Podocarpus nagi*

Physical Description: Cryst.

Melting Point: Mp 253-255°

References:

Hayashi, Y. *et al.*, *Tet. Lett.*, 1968, 2071, (*isol, struct*)

Itô, S. *et al.*, *Tet. Lett.*, 1969, 2951, (*abs config*)

Godfrey, J.E. *et al.*, *Aust. J. Chem.*, 1975, **28**, 745, (*struct*)

Bloor, S.J. *et al.*, *J. Nat. Prod.*, 1991, **54**, 1326, (*3-Deoxynagilactone C*)

Kubo, I. *et al.*, *Phytochemistry*, 1991, **30**, 1967, (*3-Epinagilactone C*)