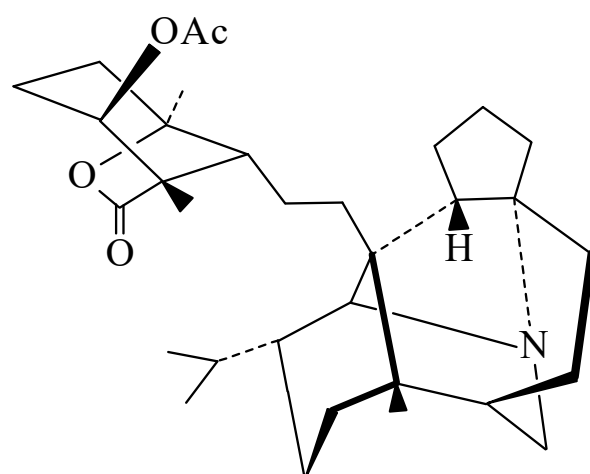




>>Entry Name: **Daphmacrine**

Synonym(s): 2-(Acetyloxy)-1,5-dimethyl-8-(23-nordaphnan-22-yl)-6-oxabicyclo[3.2.1]octan-7-one, 9C1



Absolute
configuration

CAS Registry Number: 19775-48-5

Molecular Formula: C₃₂H₄₉NO₄

Molecular Weight: 511.743

Accurate Mass: 511.366159

Percentage Composition: C 75.11%; H 9.65%; N 2.74%; O 12.51%

Biological Source: Alkaloid from *Daphniphyllum macropodum* (Daphniphyllaceae)

Physical Description: Noncryst.

>>Derivative: Hydrobromide

Physical Description: Cryst. (CHCl₃/Me₂CO)

Melting Point: Mp 300°

Optical Rotation: [α]_D +30.1 (c, 1.79 in MeOH)

>>Derivative: Methiodide

Physical Description: Plates + 1Me₂CO (Me₂CO/Et₂O)

Melting Point: Mp 274-275°

>>Derivative: Lactol

Synonym(s): **Daphmacropodine.** 1,5-Dimethyl-8-(2,3-nordaphnan-22-yl)-6-oxabicyclo[3.2.1]octane-2,7-diol 2-acetate, 9C1

CAS Registry Number: 39729-21-0

Molecular Formula: C₃₂H₅₁NO₄

Molecular Weight: 513.759

Accurate Mass: 513.381809

Percentage Composition: C 74.81%; H 10.01%; N 2.73%; O 12.46%

Biological Source: Alkaloid from *Daphniphyllum macropodum* (Daphniphyllaceae)

Melting Point: Mp 214-215°

Optical Rotation: [α]_D +4.9 (c, 1.11 in CHCl₃)

Other Data: The lactone carbonyl of Daphmacrine is reduced to OH (stereochem. undetermined)

>>Derivative: Lactol; hydrobromide

Physical Description: Cryst. (Me₂CO)

Melting Point: Mp 215-218°

References:

Nakano, T. *et al.*, *Chem. Comm.*, 1968, 600, (*isol, ir, pmr, ms, cryst struct*)

Gibbons, C.S. *et al.*, *J.C.S.(B)*, 1969, 840, (*cryst struct*)