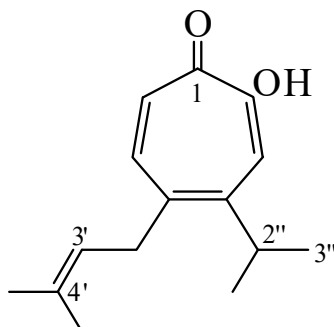




>>Entry Name: Nootkatin

Synonym(s): 2-Hydroxy-5-(3-methyl-2-butenyl)-4-(1-methylethyl)-2,4,6-cycloheptatrien-1-one. 4-Isopropyl-5-prenyltropolone. 6-Isopropyl-5-prenyltropolone



CAS Registry Number: 4431-03-2

Molecular Formula:  $C_{15}H_{20}O_2$

Molecular Weight: 232.322

Accurate Mass: 232.14633

Percentage Composition: C 77.55%; H 8.68%; O 13.77%

Biological Source: Isol. from *Chamaecyparis nootkatensis* and *Cupressus stephensonii*, other *Cupressus* spp., and from *Juniperus* spp. Widespread in the Cupressaceae

Physical Description: Cryst. (petrol)

Melting Point: Mp 95°

Solubility: BERDY SOL: Sol. MeOH, Et<sub>2</sub>O; fairly sol. hexane; poorly sol. H<sub>2</sub>O

UV: [neutral]  $\lambda_{\max}$  238 ( $\epsilon$  30900); 324 ( $\epsilon$  8710); 357 ( $\epsilon$  6165) (MeOH) (Berdy) [neutral]  $\lambda_{\max}$  235 (); 345 () (EtOH) (Berdy)

>>Derivative: Me ether

Physical Description: Cryst. (petrol)

Melting Point: Mp 72°

>>Derivative: 3',4'-Dihydro, 4'-hydroxy

Synonym(s): Nootkatinol. Hydronootkatinol

CAS Registry Number: 2492-08-2

Molecular Formula:  $C_{15}H_{22}O_3$

Molecular Weight: 250.337

Accurate Mass: 250.156895

Percentage Composition: C 71.97%; H 8.86%; O 19.17%

Biological Source: Constit. of *Juniperus rigida*, *Cupressus lindleyi* and other *Cupressus* spp.

Physical Description: Cryst. (C<sub>6</sub>H<sub>6</sub>/petrol)

Melting Point: Mp 107-108° (102-103°)

>>Derivative: 2'',3''-Didehydro

Synonym(s): 2-Hydroxy-5-(3-methyl-2-butenyl)-4-(1-methylethenyl)-2,4,6-cycloheptatrien-1-one, 9Cl. 4-Isopropenyl-5-prenyltropolone. 6-Isopropenyl-5-prenyltropolone. Procerin‡

CAS Registry Number: 552-96-5

Molecular Formula:  $C_{15}H_{18}O_2$

Molecular Weight: 230.306

Accurate Mass: 230.13068

Percentage Composition: C 78.23%; H 7.88%; O 13.89%

Biological Source: Isol. from *Juniperus procera*

Melting Point: Mp 71-72°

>>Derivative:  $\Delta^2$ -Isomer, 4'-hydroxy, 2-O- $\beta$ -D-glucopyranoside

Synonym(s): Cupressotropolone B. 5-(3-Hydroxy-3-methyl-1-butenyl)-6-isopropyltropolone-2-glucoside

CAS Registry Number: 163135-93-1