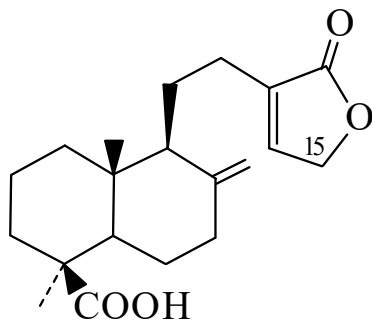




>>Entry Name: 8(17),13-Labdadien-16,15-olid-19-oic acid

Synonym(s): Demethylpinusolide. Pinusolidic acid. Pinosolide acid. Pinusolic acid



CAS Registry Number: 40433-82-7

Molecular Formula: C₂₀H₂₈O₄

Molecular Weight: 332.439

Accurate Mass: 332.19876

Percentage Composition: C 72.26%; H 8.49%; O 19.25%

Biological Source: Isol. from *Brickellia glomerata*

Physical Description: Gum

>>Derivative: Me ester

Synonym(s): Pinusolide

CAS Registry Number: 31685-80-0

Molecular Formula: C₂₁H₃₀O₄

Molecular Weight: 346.466

Accurate Mass: 346.21441

Percentage Composition: C 72.80%; H 8.73%; O 18.47%

Biological Source: Constit. of the oleoresin of *Pinus sibirica* and *Pinus koraiensis*

Physical Description: Fine needles (petrol)

Melting Point: Mp 83-84°

Optical Rotation: $[\alpha]_D^{23} +24$ (MeOH)

>>Derivative: 15ξ-Hydroxy

Synonym(s): 15-Hydroxy-8(17),13-labdadien-16,15-olid-19-oic acid. **15-Hydroxypinusolidic acid**

Molecular Formula: C₂₀H₂₈O₅

Molecular Weight: 348.438

Accurate Mass: 348.193675

Percentage Composition: C 68.94%; H 8.10%; O 22.96%

Biological Source: Isol. from *Platycladus orientalis*

Physical Description: Cryst.

Melting Point: Mp 74-75°

Optical Rotation: $[\alpha]_D^{23} +30.5$ (c, 1 in CHCl₃)

References:

- Raldugin, V.A. *et al.*, *Khim. Prir. Soedin.*, 1970, **6**, 541; *Chem. Nat. Compd. (Engl. Transl.)*, 559, (isol, struct, synth)
Calderón, J.S. *et al.*, *Phytochemistry*, 1987, **26**, 2639, (isol)
Kuo, Y.-H. *et al.*, *Heterocycles*, 1990, **31**, 1705, (15-Hydroxypinusolidic acid)