



Synonym(s): Dehydrotumulosic acid

CAS Registry Number: 6754-16-1

Molecular Formula: C₃₁H₄₈O₄

Molecular Weight: 484.718

Accurate Mass: 484.35526

Percentage Composition: C 76.82%; H 9.98%; O 13.20%

Biological Source: Constit. of *Polyporus* spp. and from *Trametes lilacino gilva*

Biological Use/Importance: Antiinflammatory agent

Physical Description: Cryst. (MeOH aq.)(as Me ester)

Melting Point: Mp 166-169° (Me ester)

Optical Rotation: [α]_D +25 (Me ester)

>>Derivative: 3-Ac

Synonym(s): Dehydropachymic acid

CAS Registry Number: 77012-31-8

Molecular Formula: C₃₃H₅₀O₅

Molecular Weight: 526.755

Accurate Mass: 526.365825

Percentage Composition: C 75.25%; H 9.57%; O 15.19%

Biological Source: Constit. of *Poria cocos*

Physical Description: Cryst. (MeOH)

Melting Point: Mp 268-270°

Optical Rotation: [α]_D²⁶ +41 (c, 1 in Py)

>>Derivative: 3-(4-Hydroxybenzoyl)

CAS Registry Number: 213764-76-2

Molecular Formula: C₃₈H₅₂O₆

Molecular Weight: 604.825

Accurate Mass: 604.37639

Percentage Composition: C 75.46%; H 8.67%; O 15.87%

Biological Source: Constit. of *Poria cocos*

Physical Description: Needles (Py/hexane)

Melting Point: Mp 242-244°

Optical Rotation: [α]_D +40 (c, 0.2 in MeOH)

UV: [neutral] $\lambda_{\max}$ 243 (); 251 () (MeOH)

References:

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Inoue, H. *et al.*, *Yakugaku Zasshi*, 1972, **92**, 621, (*Dehydrotumulosic acid*)

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Keller, A.C. *et al.*, *Phytochemistry*, 1996, **41**, 1041, (*cmr*)

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Gine, E.M. *et al.*, *Planta Med.*, 2000, **66**, 211-224, (*activity, Dehydrotumulosic acid*)