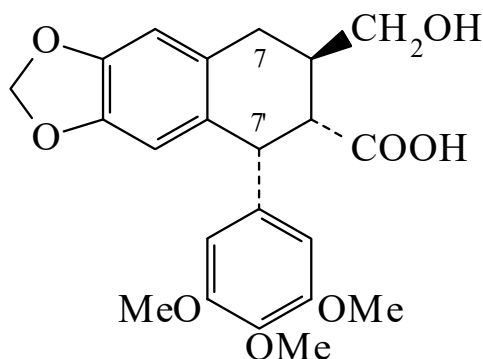




>>Entry Name: Deoxypodophyllic acid



CAS Registry Number: 38943-33-8

Molecular Formula: C₂₂H₂₄O₈

Molecular Weight: 416.427

Accurate Mass: 416.14712

Percentage Composition: C 63.45%; H 5.81%; O 30.74%

General Statement: Lignan numbering shown

Biological Source: Isol. from *Thujopsis dolabrata*

Biological Use/Importance: Antineoplastic agent

Physical Description: Cryst. (MeOH)

Melting Point: Mp 171-172°

Optical Rotation: [α]_D²⁴ -158.5 (Py)

Calculated Log P Data: Log P 0.5 (calc)

>>Derivative: Me ester

Synonym(s): Methyl deoxypodophyllotoxinate

CAS Registry Number: 1643-12-5

Molecular Formula: C₂₃H₂₆O₈

Molecular Weight: 430.454

Accurate Mass: 430.16277

Percentage Composition: C 64.18%; H 6.09%; O 29.73%

Biological Source: Cooccurs with the parent acid in *Juniperus thurifera*

Physical Description: Oil

Optical Rotation: [α]_D²³ -72.5 (c, 0.1 in EtOH)

UV: [neutral] $\lambda_{\max}$ 215 (ϵ 20215); 289 (ϵ 3750) (MeOH) (Berdy)

>>Derivative: β -D-Glucopyranosyl ester

Molecular Formula: C₂₈H₃₄O₁₃

Molecular Weight: 578.569

Accurate Mass: 578.199945

Percentage Composition: C 58.13%; H 5.92%; O 35.95%

Biological Source: Isol. from roots of *Podophyllum peltatum* and *Podophyllum emodi*

Physical Description: Powder (Me₂CO/Et₂O)

Melting Point: Mp 123-128°

Optical Rotation: [α]_D²² -151.5 (c, 0.575 in MeOH)

>>Derivative: Lactone

Synonym(s): Deoxypodophyllotoxin. Hernandion. Anthricin. Silicicolin. Desoxypodophyllotoxin

CAS Registry Number: 19186-35-7

Molecular Formula: C₂₂H₂₂O₇

Molecular Weight: 398.412

Accurate Mass: 398.136555

Percentage Composition: C 66.32%; H 5.57%; O 28.11%

Biological Source: Isol. from *Bursera microphylla*, *Libocedrus bidwillii*, *Anthriscus sylvestris*, *Hernandia ovigera*, *Juniperus silicicola*, *Podophyllum* spp. and others

Biological Use/Importance: Cytotoxic agent, antineoplastic agent

Physical Description: Cryst. (EtOH)

Melting Point: Mp 170-171°