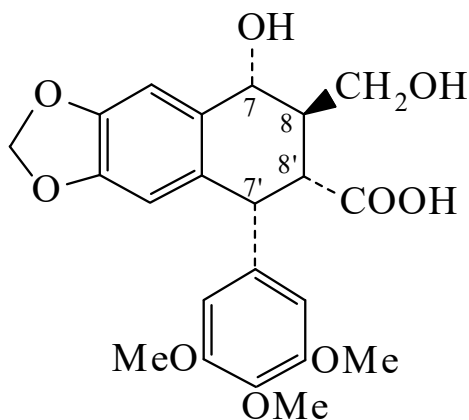




>>Entry Name: Podophyllic acid

Synonym(s): 5,6,7,8-Tetrahydro-8-hydroxy-7-(hydroxymethyl)-5-(3,4,5-trimethoxyphenyl)naphtho[2,3-*d*]-1,3-dioxole-6-carboxylic acid, 9Cl. Toxic acid. Podophyllinic acid. Podophyllotoxin acid



Related CAS Registry Numbers(s): 113565-15-4 130981-13-4

Molecular Formula: C₂₂H₂₄O₉

Molecular Weight: 432.426

Accurate Mass: 432.142035

Percentage Composition: C 61.11%; H 5.59%; O 33.30%

Use/Importance: Antimitotic agent. Derivs. show cytotoxic activity

Calculated Log P Data: Log P -1.14 (calc)

>>Variant: (7*R*,7'*R*,8*R*,8'*R*)-form

CAS Registry Number: 1853-37-8

Molecular Formula: C₂₂H₂₄O₉

Molecular Weight: 432.426

Accurate Mass: 432.142035

Percentage Composition: C 61.11%; H 5.59%; O 33.30%

Biological Source: Constit. of *Juniperus thurifera*

Physical Description: Cryst. + 3H₂O (EtOH aq.)

Melting Point: Mp 163-165 dec.° (synthetic)

Optical Rotation: [α]_D²⁵ -96 (synthetic)

Other Data: Isol. as di-Ac, Me ester

>>Derivative: Di-Ac, Me ester

Molecular Formula: C₂₇H₃₀O₁₁

Molecular Weight: 530.527

Accurate Mass: 530.178815

Percentage Composition: C 61.13%; H 5.70%; O 33.17%

Physical Description: Oil

Optical Rotation: [α]_D²³ -164 (c, 0.8 in CHCl₃)

UV: [neutral] $\lambda_{\max}$ 207 (ϵ 34600); 288 (ϵ 3000) (MeOH) (Berdy)

>>Derivative: *N*-Ethylhydrazide

Synonym(s): Mitopodozide, BAN, INN, JAN. NSC 72274

CAS Registry Number: 1508-45-8

Molecular Formula: C₂₄H₃₀N₂O₈

Molecular Weight: 474.51

Accurate Mass: 474.200218

Percentage Composition: C 60.75%; H 6.37%; N 5.90%; O 26.97%

Use/Importance: Antineoplastic agent

Melting Point: Mp 100°

Optical Rotation: [α]_D -149 (c, 0.5 in CHCl₃)

Calculated Log P Data: Log P -2.13 (calc)

Hazard & Toxicity: LD₅₀ (rat, ivn) 140 mg/kg