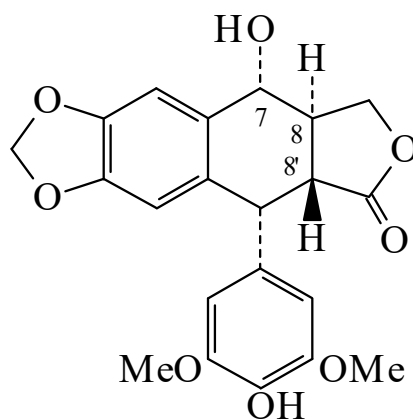




>>Entry Name: 4'-Demethylpodophyllotoxin
ENTRY UNDER REVIEW



CAS Registry Number: 40505-27-9

Molecular Formula: $C_{21}H_{20}O_8$

Molecular Weight: 400.384

Accurate Mass: 400.11582

Percentage Composition: C 63.00%; H 5.03%; O 31.97%

Biological Source: Isol. from *Podophyllum emodi*

Physical Description: Cryst. (EtOH)

Melting Point: Mp 250-251.6°

Optical Rotation: $[\alpha]_D^{20} -130$ (CHCl₃)

UV: [neutral] λ_{max} 206 (ϵ 29500); 240 (ϵ 6310); 289 (ϵ 2000); 290 () (MeOH) (Berdy)

>>Derivative: 7-O- β -D-Glucopyranoside

Molecular Formula: $C_{27}H_{30}O_{13}$

Molecular Weight: 562.526

Accurate Mass: 562.168645

Percentage Composition: C 57.65%; H 5.38%; O 36.97%

Biological Source: Isol. from *Podophyllum emodi*

Physical Description: Powder

Melting Point: Mp 165-170°

Optical Rotation: $[\alpha]_D^{20} -75$ (H₂O)

>>Derivative: 7-Epimer

Synonym(s): 4'-Demethylepipodophyllotoxin

CAS Registry Number: 6559-91-7

Use/Importance: Antimitotic agent

Physical Description: Cryst. (MeOH)

Melting Point: Mp 228-230°

Optical Rotation: $[\alpha]_D^{20} -69.8$ (CHCl₃)

>>Derivative: 7-Deoxy

Synonym(s): 4'-Demethyldeoxypodophyllotoxin

CAS Registry Number: 3590-93-0

Molecular Formula: $C_{21}H_{20}O_7$

Molecular Weight: 384.385

Accurate Mass: 384.120905

Percentage Composition: C 65.62%; H 5.24%; O 29.14%

Biological Source: Isol. from roots of *Polygala paenea*

Physical Description: Cryst.

Melting Point: Mp 244-249° (subl. at 215°)

Optical Rotation: $[\alpha]_D^{20} -122.6$ (c, 0.555 in CHCl₃)

UV: [neutral] λ_{max} 282 (ϵ 4340); 291 (ϵ 4070) (EtOH) (Berdy)