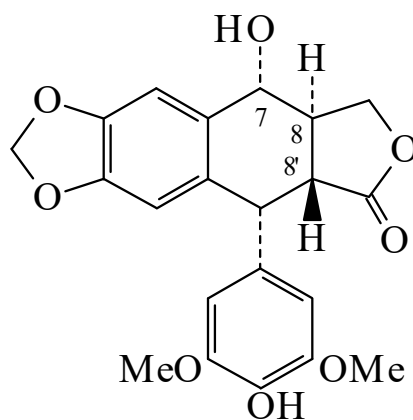




>>Entry Name: 4'-Demethylpodophyllotoxin  
ENTRY UNDER REVIEW



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:  $[\alpha]_D^{20} -130$  (CHCl<sub>3</sub>)

UV: [neutral]  $\lambda_{max}$  206 ( $\epsilon$  29500); 240 ( $\epsilon$  6310); 289 ( $\epsilon$  2000); 290 () (MeOH) (Berdy)

>>Derivative: 7-O- $\beta$ -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:  $[\alpha]_D^{20} -75$  (H<sub>2</sub>O)

>>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:  $[\alpha]_D^{20} -69.8$  (CHCl<sub>3</sub>)

>>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 CHCl<sub>3</sub>)

UV: [neutral]  $\lambda_{max}$  282 ( $\epsilon$  4340); 291 ( $\epsilon$  4070) (EtOH) (Berdy)