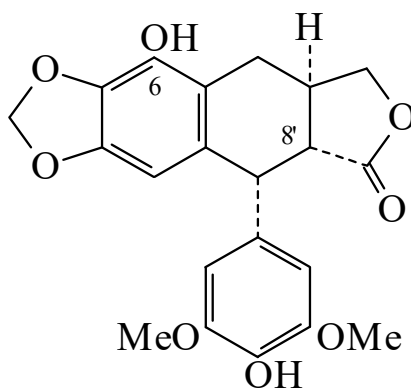




>>Entry Name: α -Peltatin

Synonym(s): α -Peltatin A



CAS Registry Number: 568-53-6

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: From *Podophyllum peltatum*; occurs free and as glycoside

Use/Importance: Antimitotic, antineoplastic agent. Shows antiviral activity

Physical Description: Flat prisms (EtOH)

Melting Point: Mp 242-246°

Optical Rotation: $[\alpha]_D^{20} -124.5$ (c, 0.5 in $CHCl_3$)

Calculated Log P Data: Log P 0.31 (calc)

UV: [neutral] λ_{max} 272 () (EtOH) (Berdy)

>>Derivative: Di-Ac

Physical Description: Prisms (EtOH)

Melting Point: Mp 233-234°

Optical Rotation: $[\alpha]_D^{20} -113.2$ (c, 0.5 in $CHCl_3$)

>>Derivative: 6-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: From *Podophyllum peltatum* and *Linum capitatum*

Physical Description: Prisms (Me_2CO)

Melting Point: Mp 168-171 dec.°

Optical Rotation: $[\alpha]_D^{20} -128.9$ (c, 0.5 in MeOH)

Solubility: BERDY SOL: Poorly sol. hexane

UV: [neutral] λ_{max} 288 () (EtOH) (Berdy)

>>Derivative: 4'-Me ether

Synonym(s): β -Peltatin. β -Peltatin A. NSC 24819

CAS Registry Number: 518-29-6

Molecular Formula: $C_{22}H_{22}O_8$

Molecular Weight: 414.411

Accurate Mass: 414.13147

Percentage Composition: C 63.76%; H 5.35%; O 30.89%

Biological Source: From *Podophyllum peltatum*, occurs free and as glucoside

Use/Importance: Antimitotic, antineoplastic agent

Physical Description: Prisms (EtOH)

Melting Point: Mp 231-238°

Optical Rotation: $[\alpha]_D^{20} -115$ (c, 1 in EtOH)

Calculated Log P Data: Log P 0.24 (calc)