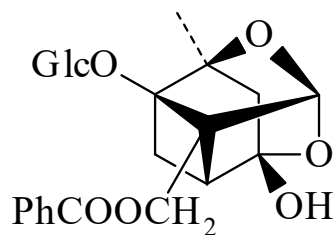




>>Entry Name: Paeoniflorin

Synonym(s): Peoniflorin



CAS Registry Number: 23180-57-6

Molecular Formula: C₂₃H₂₈O₁₁

Molecular Weight: 480.468

Accurate Mass: 480.163165

Percentage Composition: C 57.50%; H 5.87%; O 36.63%

Biological Source: Constit. of *Paeonia albiflora*. Also from *Paeonia japonica*, *Paeonia suffruticosa* and *Paeonia officinalis*

Biological Use/Importance: Antiinflammatory, antispasmodic agent. Antihypertensive agent. Possesses antidiuretic props.

Physical Description: Amorph.

Optical Rotation: $[\alpha]_D^{16} -12.8$ (c, 4.6 in MeOH)

Calculated Log P Data: Log P -2.88 (uncertain value) (calc)

UV: [neutral] $\lambda_{\max}$ 231 (ϵ 11200); 267 (sh) (ϵ 1410); 274 (ϵ 1450); 281 (ϵ 1200) (EtOH) (Derep)

>>Derivative: Penta-Ac

Molecular Formula: C₃₃H₃₈O₁₆

Molecular Weight: 690.654

Accurate Mass: 690.21599

Percentage Composition: C 57.39%; H 5.55%; O 37.06%

Physical Description: Cryst.

Melting Point: Mp 158°

Optical Rotation: $[\alpha]_D^{20} +13.5$ (c, 4.1 in MeOH)

>>Derivative: 6'-O-Benzoyl

Synonym(s): Benzoylpaeoniflorin

CAS Registry Number: 38642-49-8

Molecular Formula: C₃₀H₃₂O₁₂

Molecular Weight: 584.576

Accurate Mass: 584.18938

Percentage Composition: C 61.64%; H 5.52%; O 32.84%

Biological Source: Constit. of *Paeonia suffruticosa*

UV: [neutral] $\lambda_{\max}$ 230 (ϵ 24000); 267 (sh) (ϵ 1510); 274 (ϵ 1820); 281 (ϵ 1480) (EtOH) (Derep)

>>Derivative: 6'-(4-Hydroxybenzoyl)

Synonym(s): Mudanpioside C. Oxybenzoylpaeoniflorin

CAS Registry Number: 172760-03-1

Molecular Formula: C₃₀H₃₂O₁₃

Molecular Weight: 600.575

Accurate Mass: 600.184295

Percentage Composition: C 60.00%; H 5.37%; O 34.63%

Biological Source: Constit. of *Paeonia suffruticosa* and *Paeonia lactifolia*

Physical Description: Cryst.

Melting Point: Mp 145-150°

Optical Rotation: $[\alpha]_D -24.9$ (c, 0.1 in MeOH)

UV: [neutral] $\lambda_{\max}$ 227 (log ϵ 4.1); 260 (log ϵ 4) (no solvent reported)