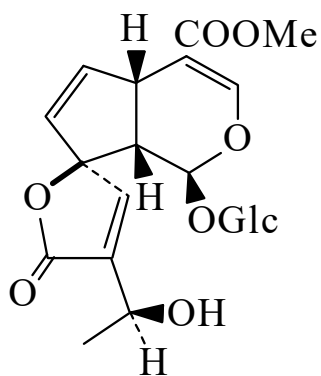




>>Entry Name: Plumieride

Synonym(s): Agoniadine



CAS Registry Number: 511-89-7

Molecular Formula: C₂₁H₂₆O₁₂

Molecular Weight: 470.429

Accurate Mass: 470.14243

Percentage Composition: C 53.62%; H 5.57%; O 40.81%

Biological Source: Constit. of *Plumeria* spp.

Physical Description: Cryst.

Melting Point: Mp 224-225°

Optical Rotation: $[\alpha]_D^{16} -114$ (c, 0.54 in H₂O)

Solubility: BERDY SOL: Sol. H₂O

UV: [neutral] $\lambda_{\max}$ 218 () (MeOH) (Berdy) [neutral] $\lambda_{\max}$ 210 (ϵ 16300) (EtOH) (Berdy)

>>Derivative: 13-Ac

Molecular Formula: C₂₃H₂₈O₁₃

Molecular Weight: 512.466

Accurate Mass: 512.152995

Percentage Composition: C 53.91%; H 5.51%; O 40.59%

Biological Source: Constit. of *Allamanda neriifolia*

Physical Description: Solid

Optical Rotation: $[\alpha]_D^{16} -37.8$ (c, 2.07 in MeOH)

>>Derivative: 13-O-(4-Hydroxycinnamoyl)

CAS Registry Number: 80416-52-0

Extra CAS Registry Numbers(s): 86333-76-8 86333-78-0

Molecular Formula: C₃₀H₃₂O₁₄

Molecular Weight: 616.574

Accurate Mass: 616.17921

Percentage Composition: C 58.44%; H 5.23%; O 36.33%

Biological Source: Constit. of *Allamanda cathartica* and *Allamanda neriifolia*

Solubility: BERDY SOL: Sol. MeOH, EtOAc; fairly sol. H₂O; poorly sol. hexane

UV: [neutral] $\lambda_{\max}$ 230 (ϵ 21900); 318 (ϵ 19100) (MeOH) (Berdy) [base] $\lambda_{\max}$ 378 () (MeOH-NAOH) (Berdy)

Other Data: Obt. as a mixt. of *E*- and *Z*-isomers

>>Derivative: 13-(4-Hydroxy-*E*-cinnamoyl), 6'-Ac

Molecular Formula: C₃₂H₃₄O₁₅

Molecular Weight: 658.612

Accurate Mass: 658.189775

Percentage Composition: C 58.36%; H 5.20%; O 36.44%

Biological Source: Constit. of *Plumeria obtusa*

Physical Description: Cryst. (MeOH)

Melting Point: Mp 202-203°

Optical Rotation: $[\alpha]_D^{24} -56$ (c, 0.0132 in MeOH)