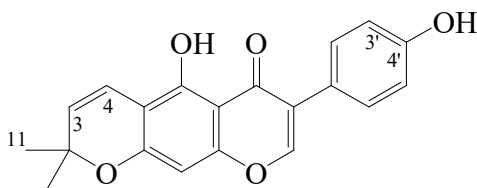




>>Entry Name: Alpinumisoflavone

Synonym(s): 5-Hydroxy-7-(4-hydroxyphenyl)-2,2-dimethyl-2*H*,6*H*-benzo[1,2-*b*:5,4-*b'*]dipyrans-6-one, 9Cl. 5-Hydroxyerythrinin A



CAS Registry Number: 34086-50-5

Molecular Formula: C₂₀H₁₆O₅

Molecular Weight: 336.343

Accurate Mass: 336.099775

Percentage Composition: C 71.42%; H 4.79%; O 23.78%

Biological Source: Isol. from *Calopogonium mucunoides*, *Derris* sp., *Erythrina variegata*, *Lupinus albus*, *Laburnum alpinum* and *Millettia thonningii*

Physical Description: Cryst. (Me₂CO/hexane or CHCl₃/EtOAc)

Melting Point: Mp 213-214°

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

UV: [neutral] λ_{max} 282 (ε 38200); 356 (ε 4200) (MeOH) (Berdy)

>>Derivative: Di-Ac

Molecular Formula: C₂₄H₂₀O₇

Molecular Weight: 420.418

Accurate Mass: 420.120905

Percentage Composition: C 68.57%; H 4.79%; O 26.64%

Physical Description: Cryst. (MeOH or EtOAc/petrol)

Melting Point: Mp 135-137° (219°)

>>Derivative: 4'-Me ether

Synonym(s): 4'-*O*-Methylalpinumisoflavone

CAS Registry Number: 27762-87-4

Molecular Formula: C₂₁H₁₈O₅

Molecular Weight: 350.37

Accurate Mass: 350.115425

Percentage Composition: C 71.99%; H 5.18%; O 22.83%

Biological Source: Isol. from seeds of *Calopogonium mucunoides*, from *Derris* sp. and *Millettia thonningii*

>>Derivative: 5-Me ether

Synonym(s): 5-*O*-Methylalpinumisoflavone. Indicanin C

CAS Registry Number: 141737-82-8

Molecular Formula: C₂₁H₁₈O₅

Molecular Weight: 350.37

Accurate Mass: 350.115425

Percentage Composition: C 71.99%; H 5.18%; O 22.83%

Biological Source: Constit. of *Millettia thonningii* and from the root bark of *Erythrina indica*

Physical Description: Cryst. (petrol)

Melting Point: Mp 199-200° (natural). Mp 134-135° (synthetic)

UV: [neutral] λ_{max} 225 (log ε 4.22); 282 (log ε 4.7); 288 (log ε 4.78) (MeOH)

>>Derivative: Di-Me ether

Synonym(s): Di-*O*-methylalpinumisoflavone

CAS Registry Number: 34086-56-1

Molecular Formula: C₂₂H₂₀O₅

Molecular Weight: 364.397

Accurate Mass: 364.131075

Percentage Composition: C 72.51%; H 5.53%; O 21.95%

Biological Source: Isol. from seeds of *Derris robusta* and from *Millettia thonningii*

Physical Description: Cryst. (C₆H₆)

Melting Point: Mp 119-120°