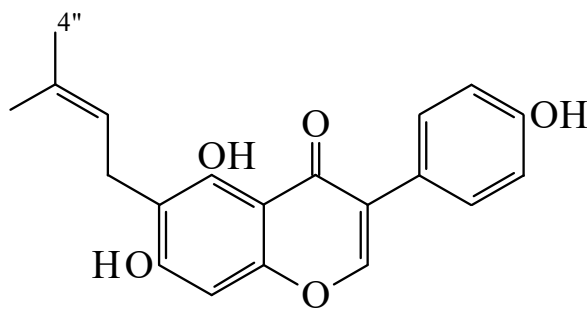




>>Entry Name: 4',5,7-Trihydroxy-6-prenylisoflavone

Synonym(s): 5,7-Dihydroxy-3-(4-hydroxyphenyl)-6-(3-methyl-2-butenyl)-4*H*-1-benzopyran-4-one, 9Cl. **Wighteone**. 6-Isopentenylgenistein. Erythrinin B



CAS Registry Number: 51225-30-0

Molecular Formula: C₂₀H₁₈O₅

Molecular Weight: 338.359

Accurate Mass: 338.115425

Percentage Composition: C 71.00%; H 5.36%; O 23.64%

Biological Source: Isol. from *Argyrocytisus battandieri*, *Erythrina variegata*, *Laburnum anagyroides*, *Lupinus albus*, *Lupinus angustifolius*, *Lupinus polyphyllus* and *Neonotonia wightii*

Use/Importance: Phytoalexin

Physical Description: Bright yellow plates (Me₂CO/C₆H₆)

Melting Point: Mp 220-221°

UV: [neutral] λ_{max} 215 (); 286 () (EtOH) (Berdy) [base] λ_{max} 277 () (NaOH) (Berdy)

>>Derivative: Tri-Ac

Physical Description: Cryst. (MeOH)

Melting Point: Mp 160-162°

>>Derivative: 7-*O*-β-D-Glucopyranoside

Synonym(s): Genisteone

Molecular Formula: C₂₆H₂₈O₁₀

Molecular Weight: 500.501

Accurate Mass: 500.16825

Percentage Composition: C 62.39%; H 5.64%; O 31.97%

Biological Source: Constit. of *Genista ephedroides*

Optical Rotation: [α]_D²⁵ -31.6 (c, 0.04 in MeOH)

UV: [neutral] λ_{max} 267 (); 330 (sh) () (MeOH)

>>Derivative: 4'-Me ether

Synonym(s): 5,7-Dihydroxy-4'-methoxy-6-prenylisoflavone. **Gancaonin A**

CAS Registry Number: 27762-99-8

Molecular Formula: C₂₁H₂₀O₅

Molecular Weight: 352.386

Accurate Mass: 352.131075

Percentage Composition: C 71.58%; H 5.72%; O 22.70%

Biological Source: Isol. from *Glycyrrhiza uralensis*. Also from *Lotus creticus*

Physical Description: Pale yellow cryst. (C₆H₆/Me₂CO)

Melting Point: Mp 213-217°

>>Derivative: 7-Me ether

Synonym(s): 4',5-Dihydroxy-7-methoxy-6-prenylisoflavone. **Gancaonin G**

CAS Registry Number: 126716-34-5

Molecular Formula: C₂₁H₂₀O₅

Molecular Weight: 352.386

Accurate Mass: 352.131075

Percentage Composition: C 71.58%; H 5.72%; O 22.70%

Biological Source: Constit. of *Glycyrrhiza uralensis*

Physical Description: Needles (MeOH)

Melting Point: Mp 95-98°