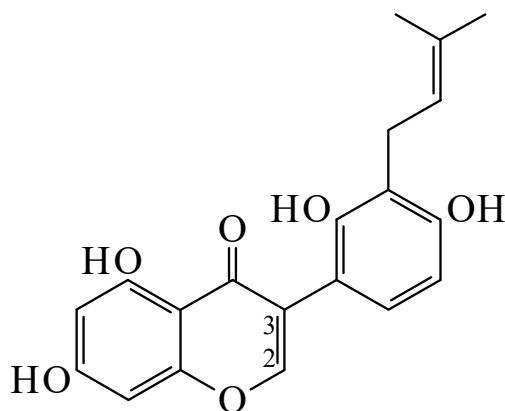




>>Entry Name: 2',4',5,7-Tetrahydroxy-3'-prenylisoflavone

Synonym(s): [2,4-Dihydroxy-3-(3-methyl-2-butenyl)phenyl]-5,7-dihydroxy-4*H*-1-benzopyran-4-one, 9Cl. 3'-Isopentenyl-2',4',5,7-tetrahydroxyisoflavone. **Licoisoflavone A**. Phaseoluteone



CAS Registry Number: 66056-19-7

Molecular Formula: C₂₀H₁₈O₆

Molecular Weight: 354.359

Accurate Mass: 354.11034

Percentage Composition: C 67.79%; H 5.12%; O 27.09%

Biological Source: Constit. of the root of *Glycyrrhiza* spp., also from *Hardenbergia violacea* and *Phaseolus vulgaris*

Physical Description: Pale-yellow prisms (MeOH aq.)

>>Derivative: Tetra-Ac

Melting Point: Mp 136-138°

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

CAS Registry Number: 137351-16-7

Molecular Formula: C₂₆H₂₈O₁₁

Molecular Weight: 516.501

Accurate Mass: 516.163165

Percentage Composition: C 60.46%; H 5.46%; O 34.07%

Biological Source: Isol. from the roots of *Lupinus albus*

>>Derivative: 4'-*O*-β-D-Glucopyranoside

CAS Registry Number: 137351-17-8

Molecular Formula: C₂₆H₂₈O₁₁

Molecular Weight: 516.501

Accurate Mass: 516.163165

Percentage Composition: C 60.46%; H 5.46%; O 34.07%

Biological Source: Isol. from the roots of *Lupinus albus*

>>Derivative: 2,3-Dihydro, 2'-Me ether

Synonym(s): 4',5,7-Trihydroxy-2'-methoxy-3'-prenylisoflavanone. **Sophoraisoflavanone A**

CAS Registry Number: 69573-59-7

Molecular Formula: C₂₁H₂₂O₆

Molecular Weight: 370.401

Accurate Mass: 370.14164

Percentage Composition: C 68.10%; H 5.99%; O 25.92%

Biological Source: Isol. from aerial parts of *Sophora tomentosa*

Use/Importance: Shows antifungal activity

Physical Description: Needles

Melting Point: Mp 178-180°

Optical Rotation: $[\alpha]_D^{22}$ -17.3 (EtOH)

UV: [neutral] $\lambda_{\max}$ 291 (); 330 () (MeOH) (Berdy) [neutral] $\lambda_{\max}$ 291 (ϵ 27000); 330 (ϵ 11000) (EtOH) (Berdy)

References: