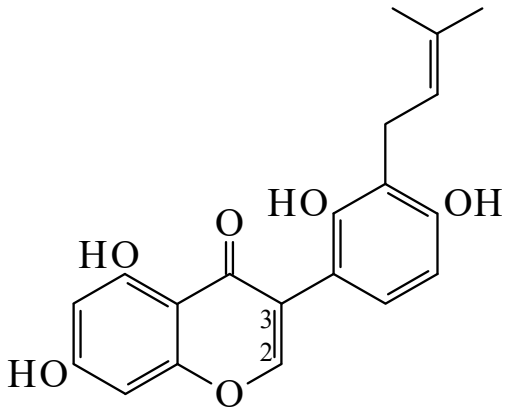
>>**Entry Name: 2',4',5,7-Tetrahydroxy-3'-prenylisoflavone**
**Synonym(s):** [2,4-Dihydroxy-3-(3-methyl-2-butenyl)phenyl]-5,7-dihydroxy-4*H*-1-benzopyran-4-one, 9CI. 3'-Isopentenyl-2',4',5,7-tetrahydroxyisoflavone. **Licoisoflavone A.** Phaseoluteone




**CAS Registry Number:** 66056-19-7

**Molecular Formula:** $C_{20}H_{18}O_6$
**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:** $C_{26}H_{28}O_{11}$
**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:** $C_{26}H_{28}O_{11}$
**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:** $C_{21}H_{22}O_6$
**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:**