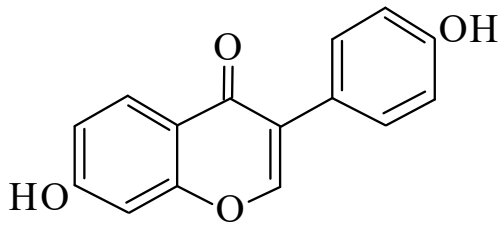
>>**Entry Name: 4',7-Dihydroxyisoflavone**
ENTRY UNDER REVIEW
Synonym(s): 7-Hydroxy-3-(4-hydroxyphenyl)-4*H*-1-benzopyran-4-one, 9Cl. **Daidzein.** Dimethylbiochanin B. Daizeol. K 251-6. Daidzeol



CAS Registry Number: 486-66-8

Molecular Formula: $C_{15}H_{10}O_4$
Molecular Weight: 254.242
Accurate Mass: 254.05791
Percentage Composition: C 70.86%; H 3.96%; O 25.17%
Biological Source: Widespread isoflavone in the Leguminosae (Papilionoideae) eg. in *Chamaecytisus* spp., *Cytisus* spp., *Phaseolus* spp. Also from *Streptomyces xanthophaeus*
Use/Importance: Calmodulin antagonist. Antioxidant
Physical Description: Pale yellow cryst. (EtOH aq.)
Melting Point: Mp 330° (323°)
UV: [base] λ_{max} 259 (ε) (MeOH/NaOH) (Derep) [neutral] λ_{max} 252 (ε 25400) (MeOH) (Derep)
Other Data: Tatoin was impure Daidzein

Sigma: D7802

>>**Derivative:** Di-Ac

CAS Registry Number: 3682-01-7
Molecular Formula: $C_{19}H_{14}O_6$
Molecular Weight: 338.316
Percentage Composition: C 67.45%; H 4.17%; O 28.37%
Physical Description: Cryst. (EtOH)
Melting Point: Mp 188-189°

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

CAS Registry Number: 58970-69-7

Molecular Formula: $C_{21}H_{20}O_9$
Molecular Weight: 416.384
Accurate Mass: 416.110735
Percentage Composition: C 60.58%; H 4.84%; O 34.58%
Biological Source: Isol. from twigs of *Piptanthus nepalensis*

>>**Derivative:** 7-*O*-β-D-Glucopyranoside
Synonym(s): Daidzin. Daidzoside
CAS Registry Number: 552-66-9

Molecular Formula: $C_{21}H_{20}O_9$
Molecular Weight: 416.384
Accurate Mass: 416.110735
Percentage Composition: C 60.58%; H 4.84%; O 34.58%
Biological Source: Isol. from soya bean meal, roots of *Pueraria lobata* and shoots of *Piptanthus nepalensis*. Also from *Baptisia* spp., *Glycine max, Medicago sativa, Thermopsis* spp. and others in Leguminosae
Physical Description: Cryst. + $1H_2O$ (H_2O) becoming anhyd. at 120°
Melting Point: Mp 233-235°
Optical Rotation: $[\alpha]_D^{20}$ –36.4 (0.02*M* KOH)