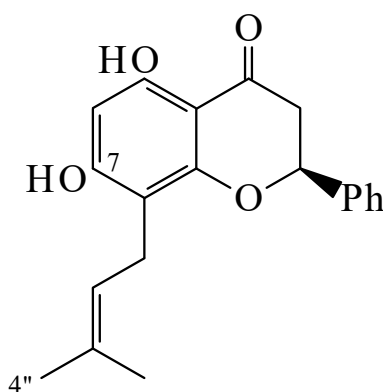




>>Entry Name: 5,7-Dihydroxy-8-prenylflavanone

Synonym(s): 2,3-Dihydro-5,7-dihydroxy-8-(3-methyl-2-butenyl)-2-phenyl-4*H*-1-benzopyran-4-one, 9Cl. **Glabranin**



CAS Registry Number: 41983-91-9

Related CAS Registry Numbers(s): 75291-75-7

Molecular Formula: C₂₀H₂₀O₄

Molecular Weight: 324.376

Accurate Mass: 324.13616

Percentage Composition: C 74.06%; H 6.21%; O 19.73%

UV: [acid] λ_{max} 294 (ε 17800); 337 (ε 3720) (MeOH/HCl) (Derep) [base] λ_{max} 248 (ε 8130); 332 (ε 28800) (MeOH/NaOH) (Derep) [neutral] λ_{max} 209 (ε 14800); 294 (ε 17400); 336 (ε 3890) (MeOH) (Derep)

>>Variant: (*S*)-form

Type of Compound Code(s): VK6320

Molecular Formula: C₂₀H₂₀O₄

Molecular Weight: 324.376

Accurate Mass: 324.13616

Percentage Composition: C 74.06%; H 6.21%; O 19.73%

Biological Source: Isol. from *Glycyrrhiza lepidota*, also from *Piscidia erythrina* and *Platitenia absinthifolia*

Use/Importance: Shows sl. activity against gram-positive bacteria

Physical Description: Cryst. (C₆H₆/petrol)

Melting Point: Mp 169-170°

Solubility: BERDY SOL: Sol. MeOH, CHCl₃; poorly sol. H₂O

UV: [neutral] λ_{max} 209 (ε 14900); 294 (ε 17400); 336 (ε 3900) (MeOH) (Berdy) [acid] λ_{max} 294 (ε 17800); 337 (ε 3720) (MeOH-HCl) (Berdy) [base] λ_{max} 248 (ε 8100); 332 (ε 28900) (MeOH-NAOH) (Berdy)

Other Data: *Platitenia* is not a generally recognised genus

>>Derivative: 7-Me ether

Synonym(s): 5-Hydroxy-7-methoxy-8-prenylflavanone. **Tephronone**

CAS Registry Number: 75350-44-6

Type of Compound Code(s): VK6320

Molecular Formula: C₂₁H₂₂O₄

Molecular Weight: 338.402

Accurate Mass: 338.15181

Percentage Composition: C 74.54%; H 6.55%; O 18.91%

Biological Source: Isol. from *Tephrosia villosa* and other *Tephrosia* spp.

Physical Description: Cryst. (cyclohexane)

Melting Point: Mp 123-124°

>>Derivative: 7-*O*-(3-Methyl-2-butenyl)

Synonym(s): 5-Hydroxy-8-prenyl-7-prenyloxyflavanone

CAS Registry Number: 96386-72-0

Type of Compound Code(s): VK6320

Molecular Formula: C₂₅H₂₈O₄

Molecular Weight: 392.494

Accurate Mass: 392.19876

Percentage Composition: C 76.50%; H 7.19%; O 16.31%

Biological Source: Isol. from *Helichrysum rugulosum*

Physical Description: Oil