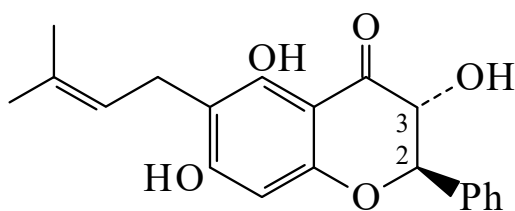




>>Entry Name: 3,5,7-Trihydroxy-6-prenylflavanone

Synonym(s): 2,3-Dihydro-3,5,7-trihydroxy-6-(3-methyl-2-butenyl)-2-phenyl-4*H*-1-benzopyran-4-one. 5,7-Dihydroxy-6-prenyldihydroflavonol. 6-Prenylpinobanksin



Molecular Formula: C₂₀H₂₀O₅

Molecular Weight: 340.375

Accurate Mass: 340.131075

Percentage Composition: C 70.58%; H 5.92%; O 23.50%

>>Variant: (2*R*,3*R*)-form

Synonym(s): Glepidotin B

CAS Registry Number: 87440-56-0

Molecular Formula: C₂₀H₂₀O₅

Molecular Weight: 340.375

Accurate Mass: 340.131075

Percentage Composition: C 70.58%; H 5.92%; O 23.50%

Biological Source: Isol. from *Glycyrrhiza lepidota*

Physical Description: Cryst. (C₆H₆)

Melting Point: Mp 172-173°

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

UV: [acid] λ_{max} 215 (ε 30400); 233 (ε 17400); 297 (ε 18200); 334 (ε 3090) (MeOH/HCl) (Derep) [base] λ_{max} 250 (ε 9120); 333 (ε 28200) (MeOH/NaOH) (Derep) [neutral] λ_{max} 214 (sh) (ε 30200); 233 (sh) (ε 17000); 297 (ε 18200); 334 (ε 4680) (MeOH) (Derep) [neutral] λ_{max} 297 (ε 18200); 334 (ε 4660) (MeOH) (Berdy) [acid] λ_{max} 215 (ε 30100); 233 (ε 17400); 297 (ε 18300); 334 (ε 3100) (MeOH-HCl) (Berdy) [base] λ_{max} 250 (ε 9100); 333 (ε 28200) (MeOH-NAOH) (Berdy)

Other Data: Struct. revised in 1992

>>Derivative: 3-Ac

Synonym(s): 3-Acetoxy-5,7-dihydroxy-6-prenylflavanone

CAS Registry Number: 89648-70-4

Molecular Formula: C₂₂H₂₂O₆

Molecular Weight: 382.412

Accurate Mass: 382.14164

Percentage Composition: C 69.10%; H 5.80%; O 25.10%

Biological Source: Constit. of *Helichrysum thapsus*

Optical Rotation: [α]_D +8 (c, 0.3 in CHCl₃)

>>Variant: (2*R*,3*S*)-form

CAS Registry Number: 89648-66-8

Molecular Formula: C₂₀H₂₀O₅

Molecular Weight: 340.375

Accurate Mass: 340.131075

Percentage Composition: C 70.58%; H 5.92%; O 23.50%

Biological Source: Isol. from *Helichrysum thapsus*

Physical Description: Oil

Other Data: Unusual *cis*-config

References:

Mitscher, L.A. *et al.*, *Phytochemistry*, 1983, **22**, 573, (*isol*)

Bohlmann, F. *et al.*, *Phytochemistry*, 1983, **22**, 2877, (*3-acetate*)

Fukai, T. *et al.*, *Heterocycles*, 1992, **34**, 1213, (*pmr, struct*)