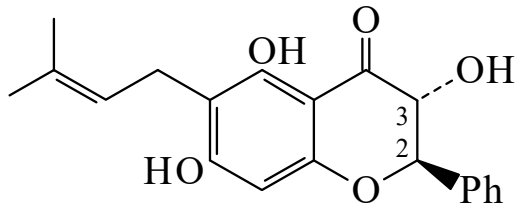
>>**Entry Name: 3,5,7-Trihydroxy-6-prenylflavanone**
Synonym(s): 2,3-Dihydro-3,5,7-trihydroxy-6-(3-methyl-2-butenyl)-2-phenyl-4*H*-1-benzopyran-4-one. 5,7-Dihydroxy-6-prenyldihydroflavonol. **6-Prenylpinobanksin**



Molecular Formula: $C_{20}H_{20}O_5$
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: $C_{20}H_{20}O_5$
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. (C_6H_6)
Melting Point: Mp 172-173°
Solubility: BERDY SOL: Sol. MeOH, $CHCl_3$; poorly sol. H_2O
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: $C_{22}H_{22}O_6$
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: $[\alpha]_D$ +8 (c, 0.3 in $CHCl_3$)

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

CAS Registry Number: 89648-66-8

Molecular Formula: $C_{20}H_{20}O_5$
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)*