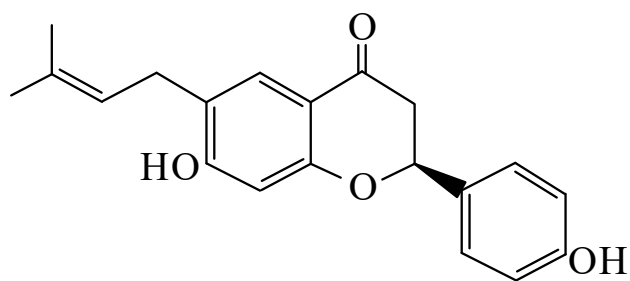




>>Entry Name: 4',7-Dihydroxy-6-prenylflavanone

Synonym(s): 2,3-Dihydro-7-hydroxy-2-(4-hydroxyphenyl)-6-(3-methyl-2-butenyl)-4*H*-1-benzopyran-4-one, 9Cl. **Bavachin**. Corylifolin



CAS Registry Number: 19879-32-4

Related CAS Registry Numbers(s): 129097-15-0

Molecular Formula: C₂₀H₂₀O₄

Molecular Weight: 324.376

Accurate Mass: 324.13616

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

>>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: Constit. of *Psoralea corylifolia*

Physical Description: Cryst.

Melting Point: Mp 191-192°

Optical Rotation: $[\alpha]_D^{30} -29.1$ (EtOH)

>>Derivative: 7-Me ether

Synonym(s): 4'-Hydroxy-7-methoxy-6-prenylflavanone. **Bavachinin**

CAS Registry Number: 19879-30-2

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: Constit. of *Psoralea corylifolia*

Physical Description: Cryst.

Melting Point: Mp 154-155°

Optical Rotation: $[\alpha]_D^{30} -10.4$ (CHCl₃)

>>Derivative: 7-Me ether, Ac

CAS Registry Number: 19879-31-3

Melting Point: Mp 101-102°

Optical Rotation: $[\alpha]_D -19.1$

References:

- Bhalla, V.K. *et al.*, *Tet. Lett.*, 1968, 2401, (*struct*)
Jain, A.C. *et al.*, *Tetrahedron*, 1970, **26**, 2631, (*synth*)
Krishnamurti, M. *et al.*, *Indian J. Chem., Sect. B*, 1981, **20**, 247, (*synth*)
Harwood, L.M. *et al.*, *Synth. Commun.*, 1990, **20**, 649, (*synth, Bavachinin*)