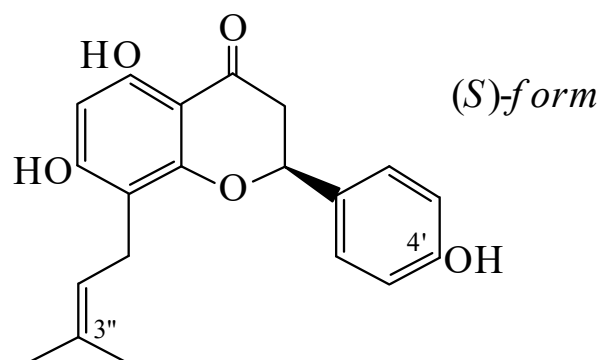




>>Entry Name: 4',5,7-Trihydroxy-8-prenylflavanone

Synonym(s): 2,3-Dihydro-5,7-dihydroxy-2-(4-hydroxyphenyl)-8-(3-methyl-2-butenyl)-4H-1-benzopyran-4-one, 9CI. 8-C-Prenylnaringenin. **Flavaprenin**. Sophoraflavanone B



CAS Registry Number: 72357-32-5

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%

Solubility: BERDY SOL: Sol. MeOH, Et₂O; poorly sol. H₂O

UV: [neutral] $\lambda_{\max}$ 295 (ϵ 18100) (MeOH) (Berdy) [base] $\lambda_{\max}$ 336 () (MeOH-NAOH) (Berdy)

>>Variant: (S)-form

CAS Registry Number: 53846-50-7

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 *Evodia hupehensis*, *Helichrysum* sp., *Sophora tomentosa*, *Sophora moorcroftiana*, several *Wyethia* spp. and roots of *Marshallia grandiflora*

Physical Description: Cryst. (EtOAc/petrol)

Melting Point: Mp 202-204° (195.5-196°)

Optical Rotation: $[\alpha]_D^{22}$ -25 (c, 0.1 in EtOH)

>>Derivative: 7-O- β -D-Glucopyranoside

Synonym(s): Flavaprin

CAS Registry Number: 53846-49-4

Molecular Formula: $C_{26}H_{30}O_{10}$

Molecular Weight: 502.517

Accurate Mass: 502.1839

Percentage Composition: C 62.14%; H 6.02%; O 31.84%

Biological Source: Constit. of *Evodia hupehensis*

Physical Description: Fine needles (MeOH)

Melting Point: Mp 245-246°

>>Derivative: 4',7-Di-O- β -D-glucopyranoside

Synonym(s): Evodioside B

CAS Registry Number: 86919-11-1

Molecular Formula: $C_{32}H_{40}O_{15}$

Molecular Weight: 664.659

Accurate Mass: 664.236725

Percentage Composition: C 57.83%; H 6.07%; O 36.11%

Biological Source: Constit. of *Evodia hupehensis* and *Evodia rutaecarpa*

Physical Description: Needles

Melting Point: Mp 245-247°

Optical Rotation: $[\alpha]_D$ +41 (c, 1 in Py)

Other Data: The two isolates have not been compared. Data refers to Evodioside B