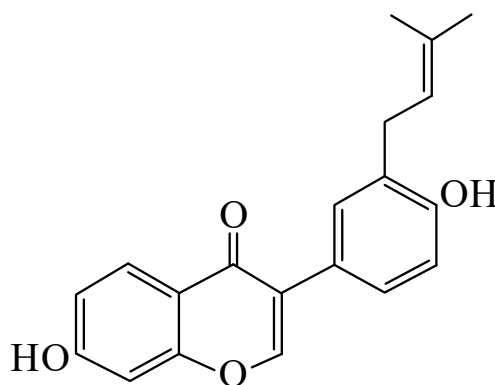




>>Entry Name: 4',7-Dihydroxy-3'-prenylisoflavone

Synonym(s): 7-Hydroxy-3-[4-hydroxy-3-(3-methyl-2-butenyl)phenyl]-4*H*-1-benzopyran-4-one, 9Cl. **Neobavaisoflavone**



CAS Registry Number: 41060-15-5

Type of Compound Code(s): VK3020

Molecular Formula: C₂₀H₁₈O₄

Molecular Weight: 322.36

Accurate Mass: 322.12051

Percentage Composition: C 74.52%; H 5.63%; O 19.85%

Biological Source: Constit. of the seeds of *Psoralea corylifolia*

Physical Description: Needles (EtOAc/C₆H₆)

Melting Point: Mp 195-196°

>>Derivative: 4'-Me ether

Synonym(s): 7-Hydroxy-4'-methoxy-3'-prenylisoflavone. 4'-*O*-Methylneobavaisoflavone

CAS Registry Number: 126654-68-0

Type of Compound Code(s): VK3030

Molecular Formula: C₂₁H₂₀O₄

Molecular Weight: 336.387

Accurate Mass: 336.13616

Percentage Composition: C 74.98%; H 5.99%; O 19.03%

Physical Description: Microcryst.

Melting Point: Mp 180-181°

>>Derivative: 4'-Me ether, 7-*O*-(2-*O*-(4-hydroxycinnamoyl)-β-D-glucopyranoside)

Synonym(s): 4'-*O*-Methylneobavaisoflavone 7-(2-*p*-coumaroylglucoside)

CAS Registry Number: 126654-66-8

Type of Compound Code(s): VK3030

Molecular Formula: C₃₆H₃₆O₁₁

Molecular Weight: 644.674

Accurate Mass: 644.225765

Percentage Composition: C 67.07%; H 5.63%; O 27.30%

Biological Source: Isol. from the stems of *Sopubia delphinifolia*

Physical Description: Microcryst.

Melting Point: Mp 158-160°

References:

Bajwa, B.S. *et al.*, *Indian J. Chem.*, 1974, **12**, 15, (*isol, struct*)

Nakayama, M. *et al.*, *Bull. Chem. Soc. Jpn.*, 1978, **51**, 2398, (*synth*)

Saxena, V.K. *et al.*, *J. Nat. Prod.*, 1990, **53**, 62, (*4'-O-Methylneobavaisoflavone*)