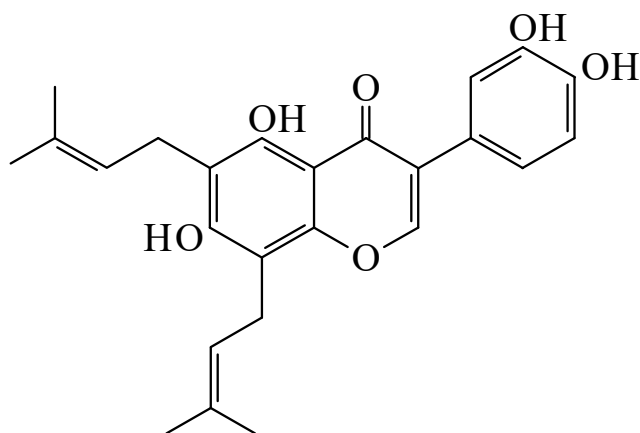




>>Entry Name: 3',4',5,7-Tetrahydroxy-6,8-diprenylisoflavone

Synonym(s): 3-(3,4-Dihydroxyphenyl)-5,7-dihydroxy-6,8-bis(3-methyl-2-butenyl)-4*H*-1-benzopyran-4-one, 9Cl. 6,8-Diprenylorobol



CAS Registry Number: 66777-70-6

Molecular Formula: C₂₅H₂₆O₆

Molecular Weight: 422.477

Accurate Mass: 422.17294

Percentage Composition: C 71.07%; H 6.20%; O 22.72%

Biological Source: Isol. from *Erythrina eriotricha*, *Maclura tinctoria* and *Millettia pachycarpa*

Physical Description: Cryst.

Melting Point: Mp 155°

>>Derivative: 3'-Me ether

Synonym(s): 4',5,7-Trihydroxy-3'-methoxy-6,8-diprenylisoflavone. **Flemiphilippinin B**

Extra CAS Registry Numbers(s): 66777-60-4

Molecular Formula: C₂₆H₂₈O₆

Molecular Weight: 436.504

Accurate Mass: 436.18859

Percentage Composition: C 71.54%; H 6.47%; O 21.99%

Biological Source: Constit. of the roots of *Flemingia philippinensis*

Use/Importance: Shows cytotoxic props.

Physical Description: Light yellow needles (Me₂CO/hexane)

Melting Point: Mp 154-156°

UV: [neutral] λ_{max} 277 (); 328 () (MeOH) (Berdy) [base] λ_{max} 286 () (MeOH-NAOH) (Berdy) [neutral] λ_{max} 209 (ε 13400); 269 (ε 31900); 316 (ε 9000) (EtOH) (Berdy)

Other Data: Incorrect struct. in CA

>>Derivative: 4'-Me ether

Synonym(s): 3',5,7-Trihydroxy-4'-methoxy-6,8-diprenylisoflavone

CAS Registry Number: 87530-21-0

Molecular Formula: C₂₆H₂₈O₆

Molecular Weight: 436.504

Accurate Mass: 436.18859

Percentage Composition: C 71.54%; H 6.47%; O 21.99%

Biological Source: Isol. from *Millettia pachycarpa*

Physical Description: Gum

References:

Singhal, A.K. *et al.*, *Phytochemistry*, 1983, **22**, 1005, (*isol*)

Chen, M. *et al.*, *Phytochemistry*, 1991, **30**, 3842-3844, (*Flemiphilippinin B*)

ElSohly, H.N. *et al.*, *Planta Med.*, 2001, **67**, 87-89, (*isol*)