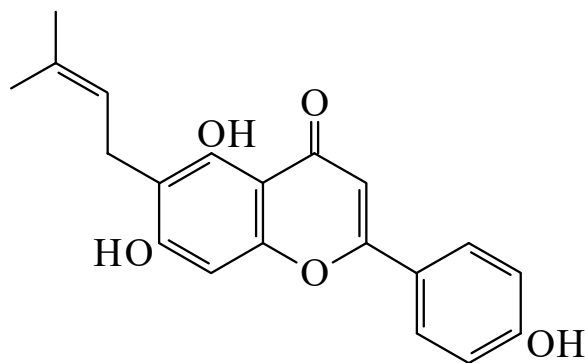




>>Entry Name: 4',5,7-Trihydroxy-6-prenylflavone

Synonym(s): 5,7-Dihydroxy-2-(4-hydroxyphenyl)-6-(3-methyl-2-butenyl)-4H-1-benzopyran-4-one, 9Cl. 6-Prenylapigenin



CAS Registry Number: 68097-13-2

Molecular Formula: C₂₀H₁₈O₅

Molecular Weight: 338.359

Accurate Mass: 338.115425

Percentage Composition: C 71.00%; H 5.36%; O 23.64%

Source/Synthesis: Constit. of *Chlorophora tinctoria*, *Dorstenia kameruniana* and *Marshalli grandiflora*

Physical Description: Yellow needles (C₆H₆/EtOAc)

Melting Point: Mp 290-291° (243-245°) (214-216°)

Other Data: Struct. revised in 1992 for *Marshalli grandiflora* isolate

>>Derivative: Tri-Ac

CAS Registry Number: 70872-34-3

Physical Description: Cryst. (MeOH)

Melting Point: Mp 262-263°

>>Derivative: Δ^3 -Isomer, 2"-hydroxy

Synonym(s): 4',5,7-Trihydroxy-6-(2-hydroxy-3-methyl-3-butenyl)flavone

Molecular Formula: C₂₀H₁₈O₁₆

Molecular Weight: 514.353

Accurate Mass: 514.05949

Percentage Composition: C 46.70%; H 3.53%; O 49.77%

Biological Source: Constit. of *Maclura pomifera*

UV: [neutral] $\lambda_{\max}$ 271 (); 336 () (MeOH)

References:

- Jain, A.C. *et al.*, *Tetrahedron*, 1978, **34**, 3569, (*synth, pmr*)
Roy, D. *et al.*, *Indian J. Chem., Sect. B*, 1980, **19**, 583, (*synth*)
Kajiyama, K. *et al.*, *J. Nat. Prod.*, 1992, **55**, 1197, (*struct*)
Monache, G.D. *et al.*, *Phytochemistry*, 1994, **37**, 893, (*isol*)
Lee, S.-J. *et al.*, *J. Nat. Prod.*, 1998, **49**, 2573-2577, (*3''-isomer-2''-hydroxy*)
Abegaz, B.M., *Phytochemistry*, 1998, **49**, 1147-1150, (*isol, cmr*)
Hossain, M.A., *Indian J. Chem., Sect. B*, 1999, **38**, 590-592, (*synth*)