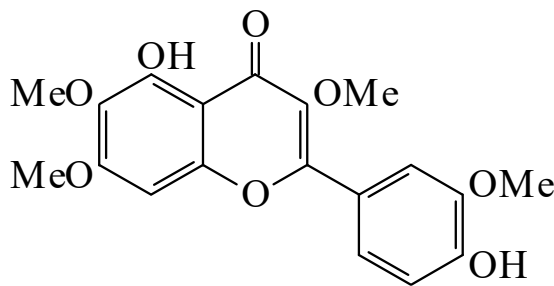




>>Entry Name: 4',5-Dihydroxy-3,3',6,7-tetramethoxyflavone

Synonym(s): 5-Hydroxy-2-(4-hydroxy-3-methoxyphenyl)-3,6,7-trimethoxy-4*H*-1-benzopyran-4-one, 9Cl. **Chrysosplenetin**. Chrysosplenol B



CAS Registry Number: 603-56-5

Related CAS Registry Numbers(s): 26896-17-3

Type of Compound Code(s): VK5260

Molecular Formula: C₁₉H₁₈O₈

Molecular Weight: 374.346

Accurate Mass: 374.10017

Percentage Composition: C 60.96%; H 4.85%; O 34.19%

Biological Source: Isol. from *Chrysosplenium* spp. and other Asteraceae. Also isol. from *Digitalis thapsi*

Physical Description: Cryst. (MeOH or EtOH)

Melting Point: Mp 186-187° (182-183°)

Other Data: Originally incorrectly assigned struct. of 4',5,7-Trihydroxy-3,3',6-trimethoxyflavone [HCG04-S](#)

>>Derivative: 4'-*O*-β-D-Glucopyranoside

Synonym(s): **Chrysosplenoside B**. Chrysosplenin

CAS Registry Number: 23279-19-8

Type of Compound Code(s): VK5260

Molecular Formula: C₂₅H₂₈O₁₃

Molecular Weight: 536.488

Accurate Mass: 536.152995

Percentage Composition: C 55.97%; H 5.26%; O 38.77%

Biological Source: Isol. from *Chrysosplenium* spp.

Physical Description: Pale yellow needles + 2H₂O

Melting Point: Mp 226-228° (203°)

Optical Rotation: [α]_D²³ -50.7

>>Derivative: 4'-*O*-β-D-Galactopyranoside

Synonym(s): **Galactobuxin**

CAS Registry Number: 133362-61-5

Type of Compound Code(s): VK5260

Molecular Formula: C₂₅H₂₈O₁₃

Molecular Weight: 536.488

Accurate Mass: 536.152995

Percentage Composition: C 55.97%; H 5.26%; O 38.77%

Biological Source: Isol. from *Buxus sempervirens*

Physical Description: Amorph.

Optical Rotation: [α]_D²⁵ -42 (c, 0.1 in MeOH)

References:

- Hoerhammer, L. *et al.*, *Chem. Ber.*, 1965, **98**, 548, (*synth*)
Fukui, K. *et al.*, *Bull. Chem. Soc. Jpn.*, 1968, **41**, 1413; 1969, **42**, 1398, (*isol, synth*)
Shimizu, M. *et al.*, *Chem. Pharm. Bull.*, 1968, **16**, 2310, (*Chrysosplenoside B*)
De Pascual Teresa, J. *et al.*, *Planta Med.*, 1980, **38**, 271, (*isol*)
Voirin, B., *Phytochemistry*, 1983, **22**, 2107, (*uv*)
Roesler, K.-H.A. *et al.*, *J. Nat. Prod.*, 1984, **47**, 316, (*isol*)
Atta-ur-Rahman, *J. Nat. Prod.*, 1991, **54**, 79, (*Galactobuxin*)