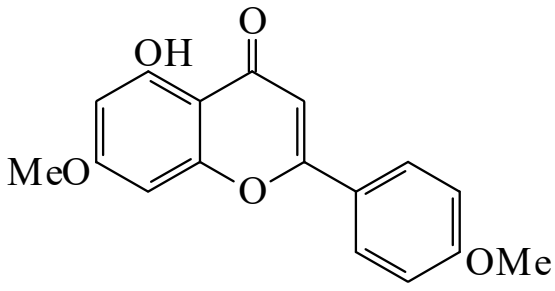
>>**Entry Name: 5-Hydroxy-4',7-dimethoxyflavone**
**Synonym(s):** 5-Hydroxy-7-methoxy-2-(4-methoxyphenyl)-4*H*-1-benzopyran-4-one




**CAS Registry Number:** 5128-44-9

**Molecular Formula:** $C_{17}H_{14}O_5$
**Molecular Weight:** 298.295
**Accurate Mass:** 298.084125
**Percentage Composition:** C 68.45%; H 4.73%; O 26.82%
**Biological Source:** Isol. from many plant spp.
**Physical Description:** Small yellow needles (EtOH)
**Melting Point:** Mp 174-176° (170-171°)
**Solubility:** BERDY SOL: Sol. MeOH, $CHCl_3$; poorly sol. $H_2O$, hexane
**UV:** [neutral] $\lambda_{max}$ 270 (ε 17200); 328 (ε 19680) (EtOH) (Berdy)

>>**Derivative:** 5-*O*-[β-D-Xylopyranosyl-(1→6)-β-D-glucopyranoside]

**CAS Registry Number:** 50675-79-1

**Molecular Formula:** $C_{28}H_{32}O_{14}$
**Molecular Weight:** 592.552
**Accurate Mass:** 592.17921
**Percentage Composition:** C 56.76%; H 5.44%; O 37.80%
**Biological Source:** Isol. from leaves of *Ovidia pillo-pillo* and *Lethedon tannaensis*
**Melting Point:** Mp 206-209°

**References:**

Nogradi, M. *et al.*, *Chem. Ber.*, 1967, **100**, 2783, *(synth)*
Kingston, D.G.I., *Tetrahedron*, 1971, **27**, 2691, *(ms)*
Nunez-Alarcon, J. *et al.*, *Phytochemistry*, 1973, **12**, 1451, *(deriv)*
Biftu, T. *et al.*, *J.C.S. Perkin 1*, 1978, 360, *(pmr)*
Ali, S.M. *et al.*, *Chem. Ind. (London)*, 1985, 276, *(synth, uv, pmr)*
Yang, H.O. *et al.*, *Planta Med.*, 1995, **61**, 37, *(isol, pmr, cmr)*
Kamaya, R. *et al.*, *Chem. Pharm. Bull.*, 1996, **44**, 690, *(isol, pmr, cmr)*
Zahir, A. *et al.*, *J. Nat. Prod.*, 1999, **62**, 241-243, *(5-xylosylglucoside, pmr, cmr)*