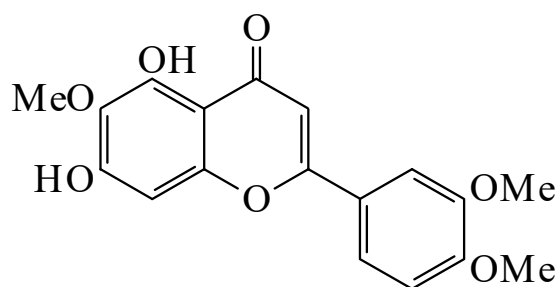




>>Entry Name: 5,7-Dihydroxy-3',4',6-trimethoxyflavone

Synonym(s): 2-(3,4-Dimethoxyphenyl)-5,7-dihydroxy-6-methoxy-4*H*-1-benzopyran-4-one, 9Cl. **Eupatilin**



CAS Registry Number: 22368-21-4

Type of Compound Code(s): VK5050

Molecular Formula: C₁₈H₁₆O₇

Molecular Weight: 344.32

Accurate Mass: 344.089605

Percentage Composition: C 62.79%; H 4.68%; O 32.53%

General Statement: Not to be confused with Eupalitin

Biological Source: Isol. from *Eupatorium semiserratum*, *Tanacetum vulgare* and *Liatris punctata*

Physical Description: Cryst. (EtOAc)

Melting Point: Mp 241-242° (234-236°)

UV: [neutral] λ_{max} 243 (ε 20500); 277 (ε 17000); 340 (ε 26300) (EtOH) (Berdy)

Hazard & Toxicity: Cytotoxic

>>Derivative: Di-Ac

Molecular Formula: C₂₂H₂₀O₉

Molecular Weight: 428.395

Percentage Composition: C 61.68%; H 4.71%; O 33.61%

Physical Description: Cryst. (C₆H₆/petrol); needles (MeOH)

Melting Point: Mp 154-155°. Mp 165-167°. Mp 220-221°

References:

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Horie, T. *et al.*, *Bull. Chem. Soc. Jpn.*, 1971, **44**, 3198, (*synth*)
Wagner, H. *et al.*, *Chem. Ber.*, 1974, **107**, 1049, (*synth*)
Midge, M.D. *et al.*, *Indian J. Chem.*, 1975, **13**, 541, (*synth*)
Goudard, M. *et al.*, *Phytochemistry*, 1978, **17**, 145, (*ms*)
Gupta, S.R. *et al.*, *Indian J. Chem., Sect. B*, 1979, **17**, 37, (*synth*)
Voirin, B., *Phytochemistry*, 1983, **22**, 2107, (*uv*)
Horie, T. *et al.*, *Yakugaku Zasshi*, 1985, **105**, 232, (*synth*)