



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

Synonym(s): Luteolin 3',4',7-trimethyl ether

CAS Registry Number: 29080-58-8

Molecular Formula: C₁₈H₁₆O₆

Molecular Weight: 328.321

Accurate Mass: 328.09469

Percentage Composition: C 65.85%; H 4.91%; O 29.24%

Biological Source: Constit. of *Piper peepuloides*, *Arnica* spp. and *Salvia* spp.

Physical Description: Yellow needles (EtOH)

Melting Point: Mp 171-172° (161-163°)

>>Derivative: 5-*O*-β-D-Glucopyranoside

Synonym(s): Lethedoside A

CAS Registry Number: 221289-20-9

Molecular Formula: C₂₄H₂₆O₁₁

Molecular Weight: 490.463

Accurate Mass: 490.147515

Percentage Composition: C 58.77%; H 5.34%; O 35.88%

Biological Source: Constit. of *Lethedon tannaensis*

Physical Description: Amorph. solid

Optical Rotation: $[\alpha]_{\text{D}}^{20} -51$ (c, 0.35 in Py)

UV: [neutral] λ_{max} 207 (log ϵ 4.7); 239 (log ϵ 4.5); 260 (log ϵ 4.3); 334 (log ϵ 4.4) (MeOH)

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

Synonym(s): Lethedioside A

CAS Registry Number: 221289-31-2

Molecular Formula: C₂₉H₃₄O₁₅

Molecular Weight: 622.579

Accurate Mass: 622.189775

Percentage Composition: C 55.95%; H 5.50%; O 38.55%

Biological Source: Constit. of *Lethedon tannaensis*

Physical Description: Amorph. solid

Optical Rotation: $[\alpha]_{\text{D}}^{20} -50.6$ (c, 0.31 in Py)

UV: [neutral] λ_{max} 207 (log ϵ 4.6); 237 (log ϵ 4.4); 263 (log ϵ 4.1); 335 (log ϵ 4.3) (MeOH)

References:

Devi, G. *et al.*, *Indian J. Chem., Sect. B*, 1979, **17**, 75

Van der Westhuizen, J.H. *et al.*, *J.C.S. Perkin I*, 1980, 1003

Zahir, A. *et al.*, *J. Nat. Prod.*, 1999, **62**, 241-243, (*Lethedoside A*, *Lethedioside A*)