



>>Derivative: 3-*O*-Sulfate

CAS Registry Number: 112106-74-8

Molecular Formula: C₁₇H₁₄O₁₀S

Molecular Weight: 410.358

Accurate Mass: 410.03077

Percentage Composition: C 49.76%; H 3.44%; O 38.99%; S 7.81%

Biological Source: Isol. from the leaves of *Flaveria chloraefolia*

>>Derivative: 3-*O*-β-D-Glucopyranoside

Synonym(s): Ombuin 3-glucoside. **Yixingensin**

CAS Registry Number: 158642-42-3

Molecular Formula: C₂₃H₂₄O₁₂

Molecular Weight: 492.435

Accurate Mass: 492.12678

Percentage Composition: C 56.10%; H 4.91%; O 38.99%

Biological Source: Constit. of *Gynostemma yixingense*

>>Derivative: 3,3'-Di-*O*-sulfate

CAS Registry Number: 79174-99-5

Molecular Formula: C₁₇H₁₄O₁₃S₂

Molecular Weight: 490.422

Accurate Mass: 489.987585

Percentage Composition: C 41.63%; H 2.88%; O 42.41%; S 13.08%

Biological Source: Constit. of *Acrotema uniflorum*

References:

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Hoerhammer, L. *et al.*, *Chem. Ber.*, 1968, **101**, 1183, (*Ombuoside*)
Farkas, L. *et al.*, *Chem. Ber.*, 1969, **102**, 2583, (*synth*)
Rao, K.V. *et al.*, *J. Het. Chem.*, 1976, **13**, 1293, (*synth, pmr*)
Tiwari, R.D. *et al.*, *Planta Med.*, 1978, **34**, 319, (*3-galactoside*)
Singh, J. *et al.*, *Phytochemistry*, 1979, **18**, 2060, (*3-neohesperidoside*)
Vajpeyi, R. *et al.*, *Indian J. Chem., Sect. B*, 1981, **20**, 348, (*isol*)
Inigo, R.P.A. *et al.*, *Phytochemistry*, 1985, **24**, 347, (*3-rutinosides*)
Yu, S.G. *et al.*, *J. Nat. Prod.*, 1986, **49**, 181, (*isol*)
Bonefeld, M. *et al.*, *Phytochemistry*, 1986, **25**, 1205, (*Ombuoside*)
Barron, D. *et al.*, *Phytochemistry*, 1988, **27**, 2362, (*3-sulfate*)

Si, J. *et al.*, *Zhiwu Xuebao*, 1994, **36**, 239, (*Yixingensin*)