



Physical Description: Amorph.

>>**Derivative:** 7 α -Chloro

Synonym(s): Linarioside. Aviciennioside

CAS Registry Number: 35927-36-7

Molecular Formula: C₁₅H₂₃ClO₁₀

Molecular Weight: 398.793

Accurate Mass: 398.097977

Percentage Composition: C 45.18%; H 5.81%; Cl 8.89%; O 40.12%

Biological Source: Constit. of *Linaria japonica* and *Avicennia officinalis*

Physical Description: Pale yellow hygroscopic amorph. solid

Optical Rotation: [α]_D²⁴ -140 (dioxan aq.)

Other Data: Unstable. Aviciennioside shown to be identical to Linarioside (1996)

>>**Derivative:** 6-Epimer, 8-Ac

Synonym(s): 8-Acetyl-6-epiharpagide

CAS Registry Number: 97169-44-3

Molecular Formula: C₁₇H₂₆O₁₁

Molecular Weight: 406.386

Accurate Mass: 406.147515

Percentage Composition: C 50.24%; H 6.45%; O 43.31%

Biological Source: Constit. of *Caryopteris x clandonensis*

Physical Description: Amorph. powder

Optical Rotation: [α]_D -36 (c, 0.0035 in MeOH)

UV: [neutral] $\lambda_{\max}$ 204 () (no solvent reported)

References:

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Takeda, Y. *et al.*, *Phytochemistry*, 1987, **26**, 2303-2306, (Decumbesides)
Heinrich, M. *et al.*, *Planta Med.*, 1989, **55**, 626, (Caprarioside)
Potterat, O. *et al.*, *Planta Med.*, 1989, **55**, 630, (6'-O-4-Hydroxycinnamoylharpagide)
Miyase, T. *et al.*, *CA*, 1991, **114**, 78651e, (Stachyoside A)
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Fernandez, L. *et al.*, *Phytochemistry*, 1995, **40**, 1569-1571, (8-cis-Cinnamoylharpagide, pmr, cmr)
Elbrecht, A. *et al.*, *Insect Biochem.*, 1996, **2**, 519-523, (8-Acetylharpagide)
Nass, R. *et al.*, *Phytochemistry*, 1996, **41**, 489-498, (Avicennioside, struct)
Li, Y.-M. *et al.*, *Phytochemistry*, 1999, **50**, 101-104, (*Scrophularia ningpoensis* esters, Harpagide, Harpagoside, pmr, cmr)
Hannedouche, S. *et al.*, *Phytochemistry*, 1999, **51**, 767-769, (Clandonoside, 8-Acetylclandonoside)
Zhang, Y.H. *et al.*, *Chin. Chem. Lett.*, 2000, **11**, 319-322, (Decumbeside C)
Hannedouche, S. *et al.*, *Phytochemistry*, 2000, **54**, 807-809, (8-Acetyl-6-epiharpagide)
Zou, C. *et al.*, *Zhongcaoyao*, 2000, **31**, 241-243; *CA*, **133**, 263830t, (6'-Acetylharpagoside)