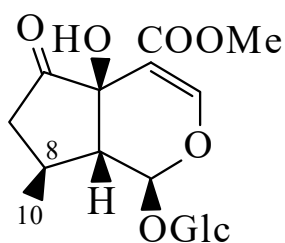




>>Entry Name: Hastatoside



CAS Registry Number: 50816-24-5

Molecular Formula: C₁₇H₂₄O₁₁

Molecular Weight: 404.37

Accurate Mass: 404.131865

Percentage Composition: C 50.50%; H 5.98%; O 43.52%

Biological Source: Constit. of *Verbena officinalis* and *Penstemon nitidus*

Optical Rotation: $[\alpha]_D^{20}$ -320 (H₂O). $[\alpha]_D$ -9.4 (c, 0.77 in MeOH)

Other Data: Samples not compared. Huge difference in reported opt. rotns.

>>Derivative: Tetra-Ac

Molecular Formula: C₂₅H₃₂O₁₅

Molecular Weight: 572.519

Accurate Mass: 572.174125

Percentage Composition: C 52.45%; H 5.63%; O 41.92%

Physical Description: Cryst.

Melting Point: Mp 180-182°

Optical Rotation: $[\alpha]_D^{23}$ -245 (c, 0.4 in CHCl₃)

>>Derivative: 10-Hydroxy

Synonym(s): 10-Hydroxyhastatoside. 10-Hydroxyepihastatoside (obsol.)

Molecular Formula: C₁₇H₂₄O₁₂

Molecular Weight: 420.369

Accurate Mass: 420.12678

Percentage Composition: C 48.57%; H 5.75%; O 45.67%

Biological Source: Constit. of *Penstemon secundiflorus*

Physical Description: Amorph. powder (as penta-Ac)

Melting Point: Mp 74-76° (penta-Ac)

Optical Rotation: $[\alpha]_D^{25}$ -126 (c, 0.78 in CHCl₃) (penta-Ac)

Other Data: Stereochem. at C-8 revised in 1998

>>Derivative: 7,8-Didehydro, 6 β -alcohol

Synonym(s): Dehydropentstemoside. Dehydropentstemoside (incorr.). Lamiophlomiside

CAS Registry Number: 139681-98-4

Molecular Formula: C₁₇H₂₄O₁₁

Molecular Weight: 404.37

Accurate Mass: 404.131865

Percentage Composition: C 50.50%; H 5.98%; O 43.52%

Biological Source: Constit. of *Lamiophlomis rotata* (*Phlomis rotata*)

Physical Description: Cryst. (MeOH) (as penta-Ac)

Melting Point: Mp 147-149° (Penta-Ac)

Optical Rotation: $[\alpha]_D^{20}$ -78.1 (c, 0.48 in MeOH) (penta-Ac)

>>Derivative: 8-Epimer

Synonym(s): 8-Epihastatoside

Molecular Formula: C₁₇H₂₄O₁₁

Molecular Weight: 404.37

Accurate Mass: 404.131865

Percentage Composition: C 50.50%; H 5.98%; O 43.52%

Biological Source: Constit. of *Penstemon secundiflorus*

Physical Description: Gum

Optical Rotation: $[\alpha]$