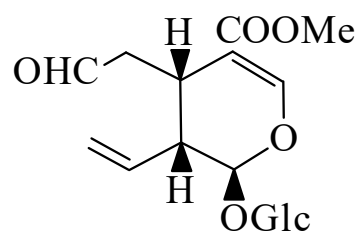




>>Entry Name: Secologanin

Synonym(s): Loniceroside



CAS Registry Number: 19351-63-4

Molecular Formula: C₁₇H₂₄O₁₀

Molecular Weight: 388.371

Accurate Mass: 388.13695

Percentage Composition: C 52.58%; H 6.23%; O 41.20%

Biological Source: Constit. of *Strychnos nux-vomica*, and *Lonicera morrowii*

Use/Importance: Precursor of indole alkaloids

Physical Description: Oil

Optical Rotation: $[\alpha]_D -96$ (MeOH)

Solubility: BERDY SOL: Sol. MeOH; poorly sol. hexane

UV: [neutral] $\lambda_{\max}$ 235 (ϵ 9100) (MeOH) (Berdy)

>>Derivative: Tetra-Ac

Physical Description: Cryst.

Melting Point: Mp 115-116°

Optical Rotation: $[\alpha]_D -102$ (c, 1 in CHCl₃)

>>Derivative: Ethylene acetal, tetra-Ac

CAS Registry Number: 79409-46-4

Molecular Formula: C₂₇H₃₆O₁₅

Molecular Weight: 600.572

Accurate Mass: 600.205425

Percentage Composition: C 54.00%; H 6.04%; O 39.96%

Physical Description: Cryst.

Melting Point: Mp 122-125°

Optical Rotation: $[\alpha]_D^{20} -99$ (c, 1 in MeOH)

Sigma: S5019

References:

- Battersby, A.R. *et al.*, *J.C.S.(C)*, 1969, 1187, (*synth*)
Souzu, I. *et al.*, *Tet. Lett.*, 1970, 191, (*isol*)
Guarnaccia, R. *et al.*, *J.A.C.S.*, 1974, **96**, 7079, (*biosynth*)
Bisset, N.G. *et al.*, *Phytochemistry*, 1974, **13**, 265, (*isol*)
Takeda, Y. *et al.*, *Chem. Pharm. Bull.*, 1976, **24**, 79, (*biosynth*)
Nakane, M. *et al.*, *J.O.C.*, 1980, **45**, 4233, (*synth*)
Tietze, L.F. *et al.*, *Annalen*, 1986, 1413, (*ethylene acetal tetra-Ac, synth, ir, pmr, cmr, ms*)
Brown, R.T. *et al.*, *Chem. Comm.*, 1986, 1818, (*synth*)
Inoue, K. *et al.*, *Phytochemistry*, 1989, **28**, 2971, (*biosynth*)
Tietze, L.F. *et al.*, *Annalen*, 1990, 253, (*synth*)
Yamamoto, H. *et al.*, *Phytochemistry*, 2000, **53**, 7-12, (*biosynth*)