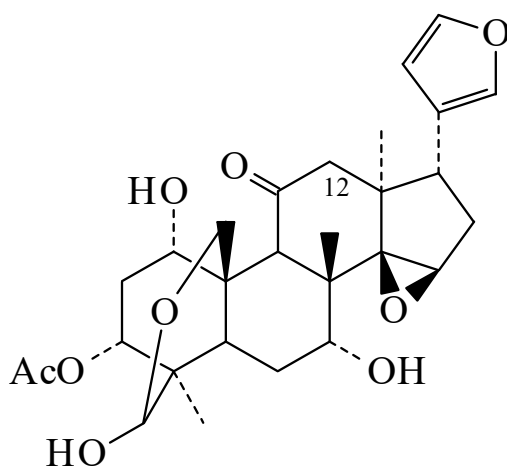




>>Entry Name: Amoorstatin



CAS Registry Number: 68985-96-6

Related CAS Registry Numbers(s): 79304-40-8

Molecular Formula: C₂₈H₃₆O₉

Molecular Weight: 516.587

Accurate Mass: 516.235935

Percentage Composition: C 65.10%; H 7.02%; O 27.87%

Biological Source: Cytotoxic constit. of *Aphanamixis grandifolia*

Physical Description: Cryst.

Melting Point: Mp 205°

UV: [neutral] λ_{max} 0 (end) (ε) (MeOH) (Derep)

>>Derivative: 12α-Hydroxy

Synonym(s): 12α-Hydroxyamoorastatin

CAS Registry Number: 71590-47-1

Molecular Formula: C₂₈H₃₆O₁₀

Molecular Weight: 532.586

Accurate Mass: 532.23085

Percentage Composition: C 63.15%; H 6.81%; O 30.04%

Biological Source: From *Aphanamixis grandifolia*

Physical Description: Cryst. (Me₂CO)

Melting Point: Mp 243-245° (dec.)

Optical Rotation: [α]_D²² -49.3 (c, 0.75 in MeOH)

UV: [neutral] λ_{max} 0 (end) (ε) (MeOH) (Derep)

>>Derivative: 12α-Acetoxy

Synonym(s): Toosendanin. Chuanliansu. 12α-Acetoxyamoorastatin

CAS Registry Number: 58812-37-6

Molecular Formula: C₃₀H₃₈O₁₁

Molecular Weight: 574.624

Accurate Mass: 574.241415

Percentage Composition: C 62.71%; H 6.67%; O 30.63%

Biological Source: Constit. of *Melia azedarach* and *Melia toosendan*

Use/Importance: Antihelmintic, insect antifeedant

Physical Description: Amorph. powder

Optical Rotation: [α]_D -31

Other Data: Obt. as mixt. of C-28 epimers

References:

- Ochi, M. *et al.*, *Chem. Lett.*, 1978, 99, (struct, deriv)
Polonsky, J. *et al.*, *J.A.C.S.*, 1978, **100**, 7731, (isol, pmr)
Polonsky, J. *et al.*, *Experientia*, 1979, **35**, 987, (12-Hydroxyamoorastatin, isol)
Arnoux, B. *et al.*, *Acta Cryst. B*, 1980, **36**, 2709, (cryst struct)
Shu, G.-X. *et al.*, *Hua Hsueh*, 1980, **38**, 196; *CA*, **93**, 239693, (isol, deriv)
Guo, F. *et al.*, *Jiegou Huaxue*, 1984, **3**, 91; *CA*, **103**, 51201, (cryst struct, Toosendanin)
Ahn, J.-W. *et al.*, *Phytochemistry*, 1994, **36**, 1493, (Toosendanin, isol, pmr, cmr)
Itokawa, H. *et al.*, *Chem. Pharm. Bull.*, 1995, **43**, 1171, (isol, pmr, cmr)