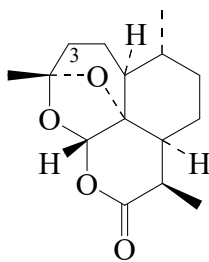




>>Entry Name: Deoxyartemisinin

Synonym(s): Octahydro-3,6,9-trimethyl-10*aH*-9,10*b*-epoxypyran[4,32-*jk*][2]benzoxepin-2(3*H*)-one, 9Cl. Deoxyarteanninun. Hydroarteanninun. Qing Hau Sau III. Arteamisinin III



Absolute
Configuration

CAS Registry Number: 72826-63-2

Related CAS Registry Numbers(s): 81970-11-8 88930-73-8 154800-85-8

Molecular Formula: C₁₅H₂₂O₄

Molecular Weight: 266.336

Accurate Mass: 266.15181

Percentage Composition: C 67.65%; H 8.33%; O 24.03%

Biological Source: Constit. of *Artemisia annua*

Biological Use/Importance: Exhibits antimalarial and antiviral activities

Physical Description: Cryst. (cyclohexane or petrol)

Melting Point: Mp 111-113°

Optical Rotation: $[\alpha]_{\text{D}}^{10} -136.4$ (c, 0.5 in MeOH)

>>Derivative: 3α-Hydroxy

Synonym(s): Artemisinin D. Arteannuin D. Qing Hau Sau IV. Qinghaosu IV. Arteamisinin IV

CAS Registry Number: 82003-85-8

Molecular Formula: C₁₅H₂₂O₅

Molecular Weight: 282.336

Accurate Mass: 282.146725

Percentage Composition: C 63.81%; H 7.85%; O 28.33%

Biological Source: Constit. of *Artemisia annua*

Physical Description: Needles (EtOAc/petrol)

Melting Point: Mp 190-192°

Optical Rotation: $[\alpha]_{\text{D}}^{20} -131.1$ (c, 0.1 in CHCl₃)

References:

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Xu, X.-X. *et al.*, *Tetrahedron*, 1986, **42**, 819, (*synth, ir*)
Brossi, A. *et al.*, *J. Med. Chem.*, 1988, **31**, 645, (*synth, pmr*)
Liu, H.-J. *et al.*, *Heterocycles*, 1996, **42**, 493, (*Artemisinin D*)
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