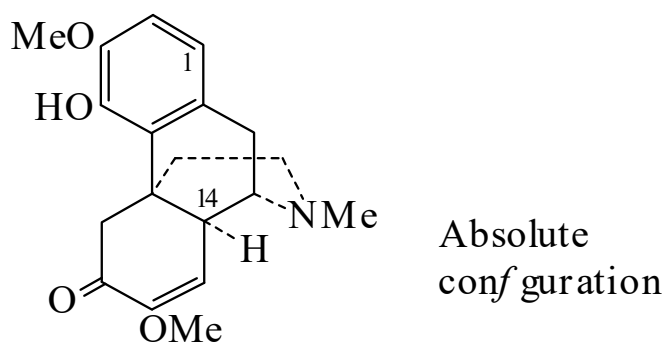




>>Entry Name: Sinomenine

Synonym(s): 7,8-Didehydro-4-hydroxy-3,7-dimethoxy-17-methylmorphinan-6-one, 9Cl. Cucoline. Kukoline



CAS Registry Number: 115-53-7

Molecular Formula: $C_{19}H_{23}NO_4$

Molecular Weight: 329.395

Accurate Mass: 329.162709

Percentage Composition: C 69.28%; H 7.04%; N 4.25%; O 19.43%

Biological Source: Alkaloid from *Sinomenium acutum* and *Stephania cepharantha* (Menispermaceae)

Use/Importance: Abortifacient in large doses. Starting material for synth. of enantiomeric morphine derivs. Immunosuppressant. Analgesic, antiinflammatory, antirheumatic props.

Melting Point: Mp 161°. Mp 182° (double Mp)

Optical Rotation: $[\alpha]_D^{25} -71$ (c, 2.1 in EtOH)

Calculated Log P Data: Log P 0.46 (uncertain value) (calc)

Hazard & Toxicity: LD₅₀ (mus, orl) 580 mg/kg. LD₅₀ (mus, ipr) 285 mg/kg

Aldrich: 36560-2

>>Derivative: Hydrochloride

Physical Description: Cryst. + 2H₂O

Melting Point: Mp 231 dec.°

Optical Rotation: $[\alpha]_D^{17} -82$ (c, 4.4 in H₂O)

>>Derivative: 8-Methoxy

Synonym(s): Cephamonine

CAS Registry Number: 162857-99-0

Molecular Formula: $C_{20}H_{25}NO_5$

Molecular Weight: 359.421

Accurate Mass: 359.173274

Percentage Composition: C 66.84%; H 7.01%; N 3.90%; O 22.26%

Biological Source: Alkaloid from tubers of *Stephania cepharantha* (Menispermaceae)

Physical Description: Amorph. powder

Optical Rotation: $[\alpha]_D^{22} -36$ (c, 0.11 in CHCl₃)

>>Derivative: 8-Methoxy; hydrochloride

Physical Description: Prisms (MeOH/Et₂O)

Melting Point: Mp 183-186°

>>Derivative: 14-Epimer

Synonym(s): 14-Epsinomenine

CAS Registry Number: 60761-53-7

Molecular Formula: $C_{19}H_{23}NO_4$

Molecular Weight: 329.395

Accurate Mass: 329.162709

Percentage Composition: C 69.28%; H 7.04%; N 4.25%; O 19.43%

Biological Source: Alkaloid from *Ocotea brachybotra* (Lauraceae)

Physical Description: Cryst. + ½ C₆H₆ (C₆H₆)

Melting Point: Mp 118-120°

Optical Rotation: $[\alpha]_D^{20} -40$ (c, 1 in CHCl₃)