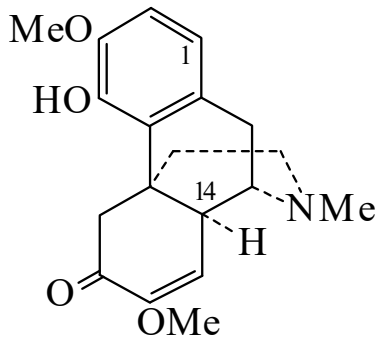
>>**Entry Name: Sinomenine**
Synonym(s): 7,8-Didehydro-4-hydroxy-3,7-dimethoxy-17-methylmorphinan-6-one, 9CI. Cucoline. Kukoline



Absolute conf guration

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: LD_{50} (mus, orl) 580 mg/kg. LD_{50} (mus, ipr) 285 mg/kg

Aldrich: 36560-2

>>**Derivative:** Hydrochloride

Physical Description: Cryst. + $2H_2O$
Melting Point: Mp 231 dec.°
Optical Rotation: $[\alpha]_D^{17}$ –82 (c, 4.4 in H_2O)

>>**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 $CHCl_3$)

>>**Derivative:** 8-Methoxy; hydrochloride
Physical Description: Prisms ($MeOH/Et_2O$)
Melting Point: Mp 183-186°

>>**Derivative:** 14-Epimer
Synonym(s): 14-Episinomenine

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 C_6H_6 (C_6H_6)
Melting Point: Mp 118-120°
Optical Rotation: $[\alpha]_D^{20}$ –40 (c, 1 in $CHCl_3$)