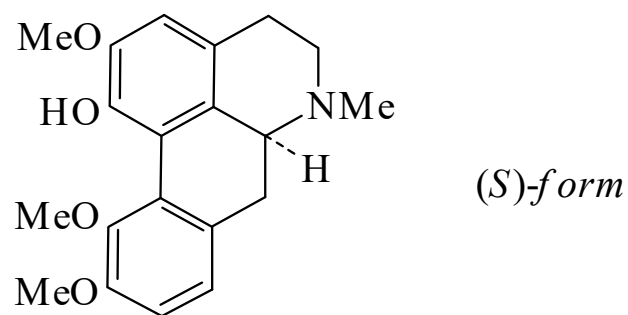




>>Entry Name: Corydine

Synonym(s): 1-Hydroxy-2,10,11-trimethoxyaporphine. Glaucentrine



Molecular Formula: C₂₀H₂₃NO₄

Molecular Weight: 341.406

Accurate Mass: 341.162709

Percentage Composition: C 70.36%; H 6.79%; N 4.10%; O 18.75%

Use/Importance: Shows irritant and respiratory stimulant and CNS depressant activities plus some antineoplastic activity. Adrenolytic and weak cholinergic agent

Calculated Log P Data: Log P 2.69 (uncertain value) (calc)

>>Variant: (S)-form

CAS Registry Number: 476-69-7

Molecular Formula: C₂₀H₂₃NO₄

Molecular Weight: 341.406

Accurate Mass: 341.162709

Percentage Composition: C 70.36%; H 6.79%; N 4.10%; O 18.75%

Biological Source: Alkaloid from *Corydalis tuberosa* and *Dicentra eximia* (Fumariaceae), also from the Annonaceae, Lauraceae, Liliaceae, Menispermaceae, Ranunculaceae, Rutaceae, Berberidaceae, Papaveraceae and Monimiaceae

Melting Point: Mp 149°

Optical Rotation: $[\alpha]_D^{25} +204$ (c, 0.6 in EtOH)

Other Data: Pharmacol. active isomer

>>Derivative: N-Oxide

Synonym(s): Corydine N-oxide

CAS Registry Number: 74804-29-8

Molecular Formula: C₂₀H₂₃NO₅

Molecular Weight: 357.405

Accurate Mass: 357.157624

Percentage Composition: C 67.21%; H 6.49%; N 3.92%; O 22.38%

Biological Source: Alkaloid from *Glaucium fimbriigerum* (Papaveraceae)

>>Derivative: N-Me

Synonym(s): N-Methylcorydine

CAS Registry Number: 4668-04-6

Molecular Formula: C₂₁H₂₆NO₄⁽⁺⁾

Molecular Weight: 356.441

Accurate Mass: 356.186184

Percentage Composition: C 70.76%; H 7.35%; N 3.93%; O 17.95%

Biological Source: Alkaloid from *Zanthoxylum nigrescens* (Rutaceae)

Melting Point: Mp 190-200 dec.° (as iodide)

Optical Rotation: $[\alpha]_D^{28} +154$ (c, 0.20 in 50% EtOH)