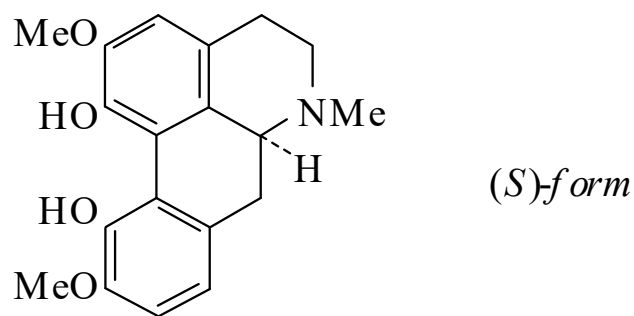




>>Entry Name: Corytuberine

Synonym(s): 1,11-Dihydroxy-2,10-dimethoxyaporphine



Molecular Formula: C₁₉H₂₁NO₄

Molecular Weight: 327.379

Accurate Mass: 327.147059

Percentage Composition: C 69.71%; H 6.47%; N 4.28%; O 19.55%

Use/Importance: Analeptic, antineoplastic agent. Respiratory stimulant, vagus depressant, increases salivation

Calculated Log P Data: Log P 2.42 (uncertain value) (calc)

UV: [base] $\lambda_{\max}$ 208 (ϵ 31600); 226 (ϵ 25100); 276 (ϵ 5010); 318 (ϵ 5010) (EtOH/KOH) (Derep) [neutral] $\lambda_{\max}$ 222 (ϵ 25100); 268 (ϵ 10000); 306 (ϵ 3160) (EtOH) (Derep)

>>Variant: (S)-form

CAS Registry Number: 517-56-6

Molecular Formula: C₁₉H₂₁NO₄

Molecular Weight: 327.379

Accurate Mass: 327.147059

Percentage Composition: C 69.71%; H 6.47%; N 4.28%; O 19.55%

Biological Source: Alkaloid from a variety of genera in the Fumariaceae (*Corydalis*, *Dicentra*), Papaveraceae (*Glaucium*, *Papaver*, *Dicranostigma*, *Eschscholtzia*), Lauraceae (*Mezilaurus*) and Menispermaceae (*Stephania*)

Melting Point: Mp 240°

Optical Rotation: $[\alpha]_{\text{D}}^{20} +286$ (c, 0.1 in EtOH)

Other Data: Pharmacol. active isomer

>>Derivative: Di-Ac

Molecular Formula: C₂₃H₂₅NO₆

Molecular Weight: 411.454

Accurate Mass: 411.168189

Percentage Composition: C 67.14%; H 6.12%; N 3.40%; O 23.33%

Melting Point: Mp 72°

>>Derivative: N-Me

Synonym(s): Magnoflorine. Thalictrine. Esholine. Escholine. Corytuberine methosalt

Molecular Formula: C₂₀H₂₄NO₄⁽⁺⁾

Molecular Weight: 342.414

Accurate Mass: 342.170534

Percentage Composition: C 70.15%; H 7.06%; N 4.09%; O 18.69%

Biological Source: Alkaloid from *Magnolia obovata* (Magnoliaceae) and *Aquilegia hybrida* (Ranunculaceae), also from the Annonaceae, Berberidaceae, Euphorbiaceae, Menispermaceae, Papaveraceae, Rutaceae, Aristolochiaceae, Fumariaceae and Rhamnaceae

Use/Importance: Weak curarising and hypotensive agent

Melting Point: Mp 248-249° (as iodide)

Optical Rotation: $[\alpha]_{\text{D}}^{20} +193$ (c, 0.20 in MeOH) (iodide)

Other Data: Iodide shows grinding-induced polymorphism. Many lit. references where Magnoflorine has supposedly been identified may be in error because of the similarity in props to [HJF33-S](#)