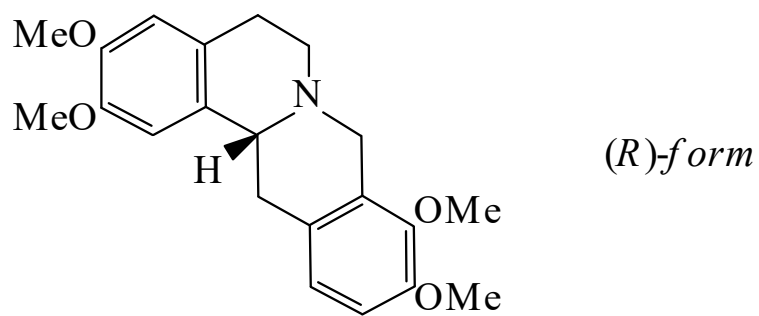




>>Entry Name: Tetrahydropalmatine

Synonym(s): Corydalis B. Gindarine. Caseanine. Rotundine‡. Hindarine



CAS Registry Number: 10097-84-4

Molecular Formula: C₂₁H₂₅NO₄

Molecular Weight: 355.433

Accurate Mass: 355.178359

Percentage Composition: C 70.96%; H 7.09%; N 3.94%; O 18.01%

Use/Importance: Analgesic, sedative and hypnotic agent (hypnotic activity exceeds that of Morphine [BCN23-S](#)). Shows strong papaverine-like activity

Calculated Log P Data: Log P 2.45 (uncertain value) (calc)

>>Variant: (R)-form

CAS Registry Number: 3520-14-7

Molecular Formula: C₂₁H₂₅NO₄

Molecular Weight: 355.433

Accurate Mass: 355.178359

Percentage Composition: C 70.96%; H 7.09%; N 3.94%; O 18.01%

Biological Source: Alkaloid from several *Corydalis* spp. and the tubers of *Stephania glabra*, *Berberis tinctoria* and *Coptis tecta* (Fumariaceae, Menispermaceae, Berberidaceae, Ranunculaceae)

Melting Point: Mp 143°

Optical Rotation: $[\alpha]_{\text{D}}^{20} +291$ (EtOH)

>>Derivative: Hydrochloride

Melting Point: Mp 266°

>>Variant: (S)-form

CAS Registry Number: 483-14-7

Molecular Formula: C₂₁H₂₅NO₄

Molecular Weight: 355.433

Accurate Mass: 355.178359

Percentage Composition: C 70.96%; H 7.09%; N 3.94%; O 18.01%

Biological Source: Alkaloid from *Corydalis* spp. and *Pachypodanthium confine* (Fumariaceae, Annonaceae)

Melting Point: Mp 141-142°

Optical Rotation: $[\alpha]_{\text{D}}^{21} -290.8$ (EtOH)

Other Data: Pharmacol. active isomer

>>Derivative: Hydrate

Melting Point: Mp 115-116°