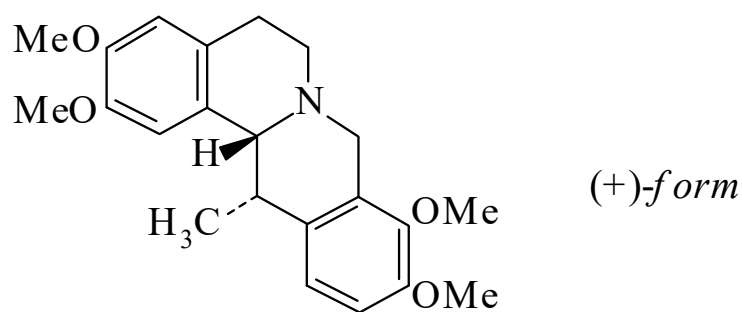




>>Entry Name: Corydaline

Synonym(s): 5,8,13,13a-Tetrahydro-2,3,9,10-tetramethoxy-13-methyl-6H-dibenzo[a,g]quinolizine, 9Cl. 2,3,9,10-Tetramethoxy-13-methylberbine, 8Cl. Corydalis A



Molecular Formula: C₂₂H₂₇NO₄

Molecular Weight: 369.46

Accurate Mass: 369.194009

Percentage Composition: C 71.52%; H 7.37%; N 3.79%; O 17.32%

>>Variant: (+)-form

CAS Registry Number: 518-69-4

Molecular Formula: C₂₂H₂₇NO₄

Molecular Weight: 369.46

Accurate Mass: 369.194009

Percentage Composition: C 71.52%; H 7.37%; N 3.79%; O 17.32%

Biological Source: Alkaloid from *Corydalis tuberosa* and many other *Corydalis* spp. (Fumariaceae)

Use/Importance: Shows analgesic and antirheumatic props.; has been evaluated clinically but with disappointing results

Physical Description: Prisms (EtOH)

Melting Point: Mp 135°

Optical Rotation: [α]_D²⁵ +295 (EtOH)

Hazard & Toxicity: LD₅₀ (mus, ivn) 136 mg/kg

Rare Chemicals Library: S44912-1

>>Variant: (±)-form

CAS Registry Number: 6018-35-5

Molecular Formula: C₂₂H₂₇NO₄

Molecular Weight: 369.46

Accurate Mass: 369.194009

Percentage Composition: C 71.52%; H 7.37%; N 3.79%; O 17.32%

Source/Synthesis: Synthetic

Melting Point: Mp 135°

References:

Manske, R.H.F., *Can. J. Chem.*, 1956, **34**, 1, (*isol*)

Hughes, D.W. *et al.*, *Can. J. Chem.*, 1976, **54**, 2252, (*cmr*)

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Iwasa, K. *et al.*, *J.O.C.*, 1981, **46**, 4744, (*synth, abs config*)

Ribár, B. *et al.*, *Acta Cryst. C*, 1992, **48**, 1864, (*cryst struct*)

Hanaoka, M. *et al.*, *Chem. Pharm. Bull.*, 2000, **48**, 399-404, (*synth*)