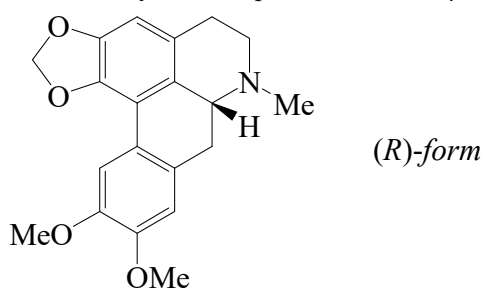




>>Entry Name: **Dicentrine**

Synonym(s): 9,10-Dimethoxy-1,2-methylenedioxyaporphine. *N,O*-Dimethylactinodaphnine. **Eximine**‡



Molecular Formula: C₂₀H₂₁NO₄

Molecular Weight: 339.39

Accurate Mass: 339.147059

Percentage Composition: C 70.78%; H 6.24%; N 4.13%; O 18.86%

Use/Importance: Antineoplastic agent. Analgesic, sedative. Antibacterial agent

Calculated Log P Data: Log P 2.86 (uncertain value) (calc)

Other Data: (*R*)-Form displays antineoplastic activity, (*S*)-form shows sedative and analgesic props.

>>Variant: (*R*)-form

CAS Registry Number: 28832-07-7

Molecular Formula: C₂₀H₂₁NO₄

Molecular Weight: 339.39

Accurate Mass: 339.147059

Percentage Composition: C 70.78%; H 6.24%; N 4.13%; O 18.86%

Biological Source: Alkaloid from a Brazilian *Duguetia* sp. (Annonaceae)

Melting Point: Mp 169°

Optical Rotation: [α]_D −53 (c, 1 in CHCl₃)

>>Derivative: *N*-De-Me

Synonym(s): (−)-Nordicentrine

CAS Registry Number: 151601-88-6

Molecular Formula: C₁₉H₁₉NO₄

Molecular Weight: 325.363

Accurate Mass: 325.131409

Percentage Composition: C 70.14%; H 5.89%; N 4.30%; O 19.67%

Biological Source: Alkaloid from tubers of *Stephania pierrei* (Menispermaceae)

Melting Point: Mp 248 dec.°

Optical Rotation: [α]_D²⁰ −34 (c, 0.2 in MeOH)

UV: [neutral] $\lambda_{\max}$ 220 (ϵ 26300); 231 (ϵ 23440); 272 (ϵ 10715); 281 (ϵ 14790) (MeOH) (Berdy)

>>Variant: (*S*)-form

CAS Registry Number: 517-66-8

Molecular Formula: C₂₀H₂₁NO₄

Molecular Weight: 339.39

Accurate Mass: 339.147059

Percentage Composition: C 70.78%; H 6.24%; N 4.13%; O 18.86%

Biological Source: Alkaloid from a variety of genera in the Lauraceae (*Cassytha*, *Laurus*, *Lindera*, *Ocotea*, *Litsea*), Menispermaceae (*Cocculus*, *Cissampelos*, *Stephania*), Fumariaceae (*Dicentra*) and Papaveraceae (*Glaucium*)

Melting Point: Mp 168-169°

Optical Rotation: [α]_D +57 (c, 1 in EtOH)

>>Derivative: Hydrochloride

Melting Point: Mp 169°

>>Derivative: Methiodide

Melting Point: Mp 224°