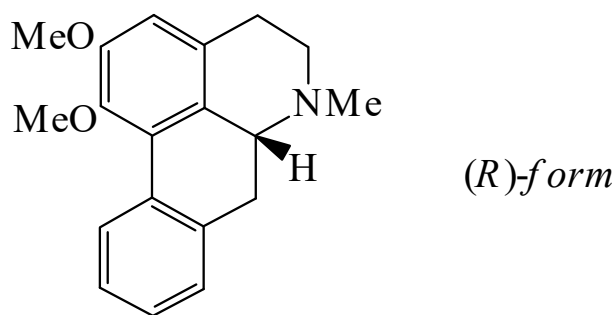




>>Entry Name: Nuciferine

Synonym(s): 1,2-Dimethoxyaporphine. Sanjoinine E



Molecular Formula: C₁₉H₂₁NO₂

Molecular Weight: 295.38

Accurate Mass: 295.157229

Percentage Composition: C 77.26%; H 7.17%; N 4.74%; O 10.83%

Biological Use/Importance: Inhibitor of adenylate cyclase. Shows strong sedative activity. Antispasmodic agent

Calculated Log P Data: Log P 3.5 (uncertain value) (calc)

UV: [neutral] λ_{max} 230 (); 272 (); 310 () (MeOH) (Berdy)

>>Variant: (R)-form

CAS Registry Number: 475-83-2

Molecular Formula: C₁₉H₂₁NO₂

Molecular Weight: 295.38

Accurate Mass: 295.157229

Percentage Composition: C 77.26%; H 7.17%; N 4.74%; O 10.83%

Biological Source: Alkaloid from *Nelumbo lutea* (Nelumbonaceae) and *Colubrina faralaotra* (Rhamnaceae), also from the Araceae, Berberidaceae, Lauraceae, Menispermaceae, Papaveraceae, Magnoliaceae and Annonaceae

Melting Point: Mp 165.5°

Optical Rotation: [α]_D²⁰ -164 (c, 1 in EtOH)

Other Data: Pharmacol. active isomer

Hazard & Toxicity: LD₅₀ (rat, orl) 280 mg/kg

>>Derivative: Hydrochloride

Melting Point: Mp 241° (*in vacuo*)

>>Derivative: Methiodide

Melting Point: Mp 177-178°

>>Derivative: N-De-Me

Synonym(s): 1,2-Dimethoxynorporphine. **N-Nornuciferine.** N-Demethylnuciferine. N-Desmethylnuciferine. Sanjoinine Ia. Daechualkaloid E

CAS Registry Number: 4846-19-9

Molecular Formula: C₁₈H₁₉NO₂

Molecular Weight: 281.354

Accurate Mass: 281.141579

Percentage Composition: C 76.84%; H 6.81%; N 4.98%; O 11.37%

Biological Source: Alkaloid from *Nelumbo lutea* (Nelumbonaceae) and *Colubrina faralaotra* (Rhamnaceae), also from the Annonaceae, Magnoliaceae, Menispermaceae and Monimiaceae

Biological Use/Importance: Antispasmodic agent, serotonin receptor antagonist

Melting Point: Mp 128-129°

Optical Rotation: [α]_D²⁵ -145 (c, 0.98 in EtOH)

>>Derivative: N-De-Me, N-formyl

Synonym(s): **N-Formylnornuciferine**