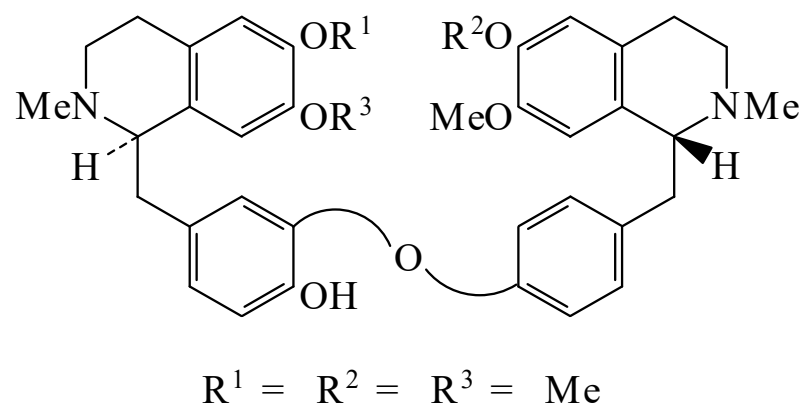




>>Entry Name: Dauricine

Synonym(s): 6,6'-Di-*O*-methyldauricoline



CAS Registry Number: 524-17-4

Molecular Formula: $\text{C}_{38}\text{H}_{44}\text{N}_2\text{O}_6$

Molecular Weight: 624.775

Accurate Mass: 624.319938

Percentage Composition: C 73.05%; H 7.10%; N 4.48%; O 15.36%

Biological Source: Alkaloid from the rhizomes of *Menispermum dauricum*, the subterranean parts of *Menispermum canadense*, and from *Polyalthia nitidissima* (Menispermaceae, Annonaceae)

Use/Importance: Antiarrhythmic, antihypertensive agent. Shows antiinflammatory and anaesthetic props. Weak curarising agent

Melting Point: Mp 115°

Optical Rotation: $[\alpha]_{\text{D}} -139$ (MeOH)

Calculated Log P Data: Log P 6.67 (calc)

Hazard & Toxicity: LD₅₀ (mus, orl) 1180 mg/kg. LD₅₀ (mus, ipr) 185 mg/kg ; BERDY HAZD : LD₅₀ (mus, ipr) 125 - 175 mg/kg

>>Derivative: Methiodide (1:2)

Physical Description: Needles (MeOH)

Melting Point: Mp 201°

Optical Rotation: $[\alpha]_{\text{D}}^{20} -114$ (c, 0.348 in H₂O)

>>Derivative: Me ether

Synonym(s): *O*-Methyldauricine

CAS Registry Number: 2202-17-7

Molecular Formula: $\text{C}_{39}\text{H}_{46}\text{N}_2\text{O}_6$

Molecular Weight: 638.802

Accurate Mass: 638.335588

Percentage Composition: C 73.33%; H 7.26%; N 4.39%; O 15.03%

Biological Source: Alkaloid from the bark of *Colubrina asiatica* and *Popowia* cf. *cyanocarpa* (Rhamnaceae, Annonaceae)

Use/Importance: Shows activity against Walker 256 carcinosarcoma

Physical Description: Brittle foam

Optical Rotation: $[\alpha]_{\text{D}} -128$ (c, 0.06 in MeOH)

Hazard & Toxicity: BERDY HAZD : LD₅₀ (mus, ipr) 125 mg/kg

>>Derivative: Me ether, 2-*N*-Oxide

Synonym(s): *O*-Methyldauricine 2-*N*-oxide

CAS Registry Number: 107882-03-1

Molecular Formula: $\text{C}_{39}\text{H}_{46}\text{N}_2\text{O}_7$

Molecular Weight: 654.802

Accurate Mass: 654.330503

Percentage Composition: C 71.54%; H 7.08%; N 4.28%; O 17.10%

Biological Source: Alkaloid from the bark and leaves of *Popowia pisocarpa* (Annonaceae)

Physical Description: Amorph.

Optical Rotation: $[\alpha]_{\text{D}} -138$ (c, 0.5 in MeOH)

Other Data: Isol. as an inseparable mixt. with the 2'-*N*-oxide (ratio 10:7 or 7:10)