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Produktinformation



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PRODUCT INFORMATION



Mitraciliatine

Item No. 39856

CAS Registry No.: 14509-92-3
Formal Name: (αE,2S,3R,12bR)-3-ethyl-1,2,3,4,6,7,12,12b-octahydro-8-methoxy-α-(methoxymethylene)-indolo[2,3-a]quinolizine-2-acetic acid, methyl ester

MF: C₂₃H₃₀N₂O₄

FW: 398.5

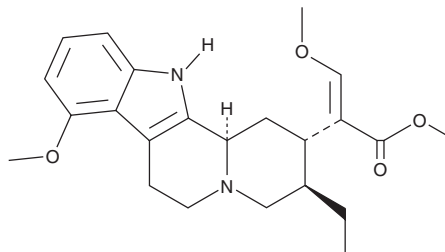
Purity: ≥98%

Supplied as: A solid

Storage: -20°C

Stability: ≥2 years

Item Origin: Plant/*Mitragyna speciosa*



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Mitraciliatine is supplied as a solid. A stock solution may be made by dissolving the Mitraciliatine in the solvent of choice, which should be purged with an inert gas. Mitraciliatine is soluble in methanol.

Description

Mitraciliatine is an alkaloid that has been found in *M. speciosa* (Kratom in Thai) and is a μ-opioid receptor (MOR) partial agonist and κ-opioid receptor (KOR) agonist.^{1,2} It is selective for MOR and KOR over the δ-opioid receptor (DOR; EC₅₀s = 228, 218, and >1,000 nM, respectively, for the mouse receptors in a GTPγS binding assay).² Mitraciliatine (100 nmol/animal, i.c.v.) increases the latency to withdrawal in the warm water tail withdrawal assay in mice, an effect that can be reversed by knockout of MOR but not KOR. Unlike morphine, mitraciliatine does not induce hyperlocomotion or respiratory depression.

References

1. Philipp, A.A., Wissenbach, D.K., Weber, A.A., *et al.* Metabolism studies of the *Kratom* alkaloids mitraciliatine and isopaynantheine, diastereomers of the main alkaloids mitragynine and paynantheine, in rat and human urine using liquid chromatography- linear ion trap- mass spectrometry. *J. Chromatogr. B Analyt. Technol. Biomed. Life Sci.* **879(15-16)**, 1049-1055 (2011).
2. Chakraborty, S., Uprety, R., Daibani, A.E., *et al.* Kratom alkaloids as probes for opioid receptor function: Pharmacological characterization of minor indole and oxindole alkaloids from kratom. *ACS Chem. Neurosci.* **12(14)**, 2661-2678 (2021).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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