SZABO SCANDIC

Part of Europa Biosite

Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

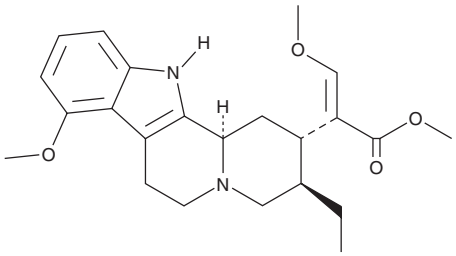
linkedin.com/company/szaboscandic

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:	$C_{23}H_{30}N_2O_4$
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; EC_{50}s = 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).

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM