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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](https://www.linkedin.com/company/szaboscandic) 

PRODUCT INFORMATION



Paynantheine

Item No. 21841

CAS Registry No.: 4697-66-9

Formal Name: (αE,2S,3R,12bS)-3-ethenyl-1,2,3,4,6,7,12,12b-octahydro-8-methoxy-α-(methoxymethylene)-indolo[2,3-a]quinolizine-2-acetic acid, methyl ester

Synonym: (+)-Paynantheine

MF: C₂₃H₂₈N₂O₄

FW: 396.5

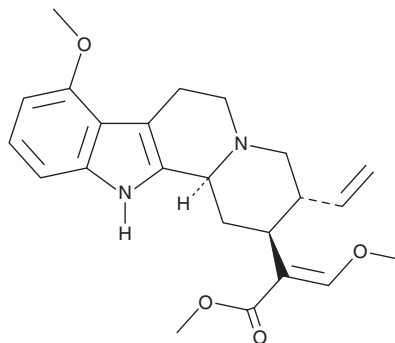
Purity: ≥98%

UV/Vis.: λ_{max}: 226, 292 nm

Supplied as: A crystalline solid

Storage: -20°C

Stability: As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly



Description

Paynantheine (Item No. 21841) is an alkaloid of the herbal drug *M. speciosa* (also known as kratom). Kratom (mitragynine; Item Nos. 11151 | 18567) has opioid-like and stimulant effects, and paynantheine can be detected in urine after kratom ingestion.¹ Paynantheine blocks the delayed rectifier potassium current in human induced pluripotent stem cell-derived cardiomyocytes (IC₅₀ = 2.47 μM), suggesting that it may have cardiotoxic effects.² This product is intended for research and forensic applications.

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. Lu, J., Wei, H., Wu, J., *et al.* Evaluation of the cardiotoxicity of mitragynine and its analogues using human induced pluripotent stem cell-derived cardiomyocytes. *PLoS One* **9(12)**, e115648 (2014).

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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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