



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

PRODUCT INFORMATION



Yunaconitine

Item No. 34127

CAS Registry No.: 70578-24-4
Formal Name: (1 α ,3 α ,6 α ,14 α ,16 β)-20-ethyl-1,6,16-trimethoxy-4-(methoxymethyl)-aconitane-3,8,13,14-tetrol, 8-acetate 14-(4-methoxybenzoate)

Synonyms: Guayewuanine B, Yunnaconitine

MF: C₃₅H₄₉NO₁₁

FW: 659.8

Purity: \geq 98%

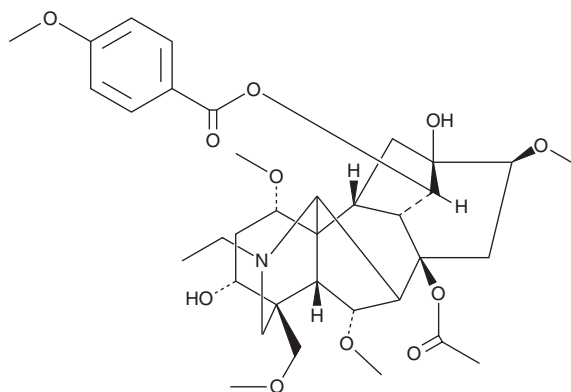
UV/Vis.: λ_{max} : 260 nm

Supplied as: A solid

Storage: -20°C

Stability: \geq 4 years

Item Origin: Plant/*Aconitum carmichaelii*



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

Laboratory Procedures

Yunaconitine is supplied as a solid. A stock solution may be made by dissolving the yunaconitine in the solvent of choice, which should be purged with an inert gas. Yunaconitine is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of yunaconitine in these solvents is approximately 1 mg/ml.

Yunaconitine is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, yunaconitine should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Yunaconitine has a solubility of approximately 0.2 mg/ml in a 1:4 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Yunaconitine is a diterpenoid alkaloid that has been found in *A. vilmorinianum* and has diverse biological activities.¹ It is active against *E. coli* and *B. subtilis* (MICs = 32 and 8 μ g/ml, respectively).¹ Yunaconitine acts as a metal chelator, inhibiting ferrozine-Fe²⁺ complex formation with an IC₅₀ value of 11.6 μ g/ml. Yunaconitine has been found in the urine of patients with aconite poisoning.²

References

1. Yin, T.-P., Cai, L., Fang, H.-X., *et al.* Diterpenoid alkaloids from *Aconitum vilmorinianum*. *Phytochemistry* **116**, 314-319 (2015).
2. Lai, C.-K., Poon, W.-T., and Chan, Y.-W. Hidden aconite poisoning: Identification of yunaconitine and related aconitum alkaloids in urine by liquid chromatography-tandem mass spectrometry. *J. Anal. Toxicol.* **30**(7), 426-433 (2006).

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.

WARRANTY AND LIMITATION OF REMEDY

Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

Copyright Cayman Chemical Company, 08/25/2023

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