



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) 

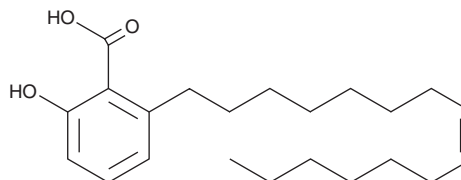
PRODUCT INFORMATION



Anacardic Acid monoene

Item No. 18422

CAS Registry No.: 22910-60-7
Formal Name: 2-hydroxy-6-(8Z)-8-pentadecenylbenzoic acid
Synonyms: Anacardic Acid 15:1, Ginkgolic Acid I, Ginkgolic Acid C15:1
MF: C₂₂H₃₄O₃
FW: 346.5
Purity: ≥95%
UV/Vis.: λ_{max}: 243, 311 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥2 years



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

Laboratory Procedures

Anacardic acid monoene is supplied as a crystalline solid. A stock solution may be made by dissolving the anacardic acid monoene in the solvent of choice. Anacardic acid monoene is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of anacardic acid monoene in ethanol and DMF is approximately 50 mg/ml and approximately 30 mg/ml in DMSO.

Anacardic acid monoene is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, anacardic acid monoene should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. Anacardic acid monoene has a solubility of approximately 0.5 mg/ml in a 1:1 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Extracts of the leaves and fruit of *Ginkgo* plants have long been used in traditional medicine and have multiple potential therapeutic applications, including ameliorating dementia.^{1,2} However, ginkgolic acids, 2-hydroxy-6-alkylbenzoic acids related to anacardic acids, may be deleterious components in these extracts.¹ Anacardic acid is a 2-hydroxy-6-alkylbenzoic acid in which the alkyl chain contains 15 carbons and is unsaturated at the 8 position.¹ It inhibits SUMOylation *in vitro* (IC₅₀ = 3 μM) and in cells without affecting protein ubiquitination.^{3,4} Anacardic acid directly binds the SUMO-activating enzyme E1, blocking the formation of the E1-SUMO intermediate.³ Anacardic acid also suppresses the development of pancreatic cancer xenografts in mice.⁵

References

1. He, X., Bernart, M.W., Nolan, G.S., *et al.* *J. Chromatogr. Sci.* **38**, 169-173 (2000).
2. Gauthier, S. and Schlaefke, S. *Clin. Interv. Aging* **9**, 2065-2077 (2014).
3. Fukuda, I., Ito, A., Hirai, G., *et al.* *Chem. Biol.* **16**, 133-140 (2009).
4. Luo, H.-B., Xia, Y.-Y., Shu, X.-J., *et al.* *Proc. Natl. Acad. Sci. USA* **111(46)**, 16586-16591 (2014).
5. Ma, J., Duan, W., Han, S., *et al.* *Oncotarget* **6(25)**, 20993-21003 (2015).

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, 11/29/2018

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