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

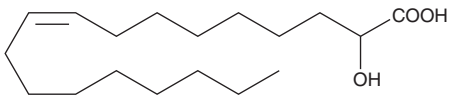
linkedin.com/company/szaboscandic

PRODUCT INFORMATION

2-hydroxy Oleic Acid

Item No. 36044

CAS Registry No.: 56472-29-8
Formal Name: 2-hydroxy-9Z-octadecenoic acid
Synonyms: 2-hydroxy-9-*cis*-Octadecenoic Acid, α-hydroxy-9-*cis*-Octadecenoic Acid, 2-OHOA, SML 0256
MF: $C_{18}H_{34}O_3$
FW: 298.5
Purity: ≥98%
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years



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

Laboratory Procedures

2-hydroxy Oleic acid is supplied as a solid. A stock solution may be made by dissolving the 2-hydroxy oleic acid in the solvent of choice, which should be purged with an inert gas. 2-hydroxy Oleic acid is slightly soluble in chloroform, methanol, and DMSO.

Description

2-hydroxy Oleic acid is a synthetic monounsaturated hydroxylated fatty acid.[1] It decreases the lamellar-to-hexagonal transition temperature of bovine liver phosphatidylethanolamine (PE) membranes by approximately 12.5°C when included at a 20:1 molar ratio of PE:2-hydroxy oleic acid. 2-hydroxy Oleic acid increases levels of protein kinase C α (PKCα) in and decreases proliferation of A549 non-small cell lung cancer (NSCLC) cells in a concentration-dependent manner. It reduces tumor growth in an A549 mouse xenograft model when administered at doses of 75 and 200 mg/kg. 2-hydroxy Oleic acid has been used in the generation of liposomes.[2]

References

1. Martínez, J., Vögler, O., Casas, J., *et al.* Membrane structure modulation, protein kinase Cα activation, and anticancer activity of minerval. *Mol. Pharmacol.* **67(2)**, 531-540 (2004).
2. Olechowska, K., Mach, M., Hąc-Wydro, K., *et al.* Studies on the interactions of 2 hydroxyoleic acid with monolayers and bilayers containing cationic lipid: Searching for the formulations for more efficient drug delivery to cancer cells. *Langmuir* **35(27)**, 9084-9092 (2019).

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