



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) 

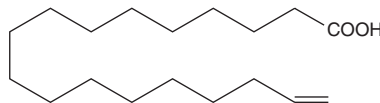
PRODUCT INFORMATION



17-Octadecynoic Acid

Item No. 90270

CAS Registry No.: 34450-18-5
Synonyms: Alk-16, 17-ODYA
MF: $C_{18}H_{32}O_2$
FW: 280.5
Purity: $\geq 98\%$
Supplied as: A crystalline solid
Storage: $-20^{\circ}C$
Stability: ≥ 1 year



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

Laboratory Procedures

17-Octadecynoic acid is supplied as a crystalline solid. A stock solution may be made by dissolving the 17-octadecynoic acid in the solvent of choice. 17-Octadecynoic acid is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of 17-octadecynoic acid in ethanol and DMF is approximately 10 mg/ml and approximately 1 mg/ml in DMSO.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of 17-octadecynoic acid can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of 17-octadecynoic acid in 0.15 M Tris-HCl, pH 8.5, is approximately 1 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

17-Octadecynoic Acid (17-ODYA) is a fatty acid alkyne. It is a suicide inhibitor of leukotriene B_4 20-hydroxylase and renal CYP450 ω -hydroxylase.^{1,2} 17-ODYA (10 μ M) completely inhibits the bradykinin-dependent transport of sodium chloride in rat TALH cells.² It has been used as a click-chemistry probe for labeling palmitoylation substrates *in vitro*.³ It has also been used to study the formation of lipid droplets in live THP-1 macrophages and *C. elegans*.⁴

References

1. Shak, S., Reich, N.O., Goldstein, I.M., *et al.* Leukotriene B_4 ω -hydroxylase in human polymorphonuclear leukocytes. Suicidal inactivation by acetylenic fatty acids. *J. Biol. Chem.* **260**:24, 13023-13028 (1985).
2. Grider, J.S., Falcone, J.C., Kilpatrick, E.L., *et al.* P450 arachidonate metabolites mediate bradykinin-dependent inhibition of NaCl transport in the rat thick ascending limb. *Can. J. Physiol. Pharmacol.* **75**(2), 91-96 (1997).
3. Martin, B.R. and Cravatt, B.F. Large-scale profiling of protein palmitoylation in mammalian cells. *Nat. Methods* **6**(2), 135-138 (2009).
4. Wei, L., Hu, F., Shen, Y., *et al.* Live-cell imaging of alkyne-tagged small biomolecules by stimulated Raman scattering. *Nat. Methods* **11**(4), 410-412 (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.

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, 07/24/2019

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