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- 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



cis-10-Nonadecenoic Acid

Item No. 19749

CAS Registry No.: 73033-09-7
Formal Name: 10Z-nonadecenoic acid
Synonym: Nonadeca-10(Z)-enoic Acid
MF: C₁₉H₃₆O₂
FW: 296.5



Purity: ≥98%
Supplied as: A solution in ethanol
Storage: -20°C
Stability: As supplied, 1 year from the QC date provided on the Certificate of Analysis, when stored properly

Laboratory Procedures

cis-10-Nonadecenoic acid is supplied as a solution in ethanol. To change the solvent, simply evaporate the *cis*-10-nonadecenoic acid under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as ethanol, DMSO, and dimethyl formamide purged with an inert gas can be used. The solubility of *cis*-10-nonadecenoic acid in these solvents is approximately 30 mg/ml.

cis-10-Nonadecenoic acid is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, the ethanolic solution of *cis*-10-nonadecenoic acid should be diluted with the aqueous buffer of choice. *cis*-10-Nonadecenoic acid has a solubility of approximately 0.25 mg/ml in a 1:7 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

cis-10-Nonadecenoic acid is a C19:1 monounsaturated fatty acid. It has been examined for potential antitumor activity and was reported to inhibit HL-60 cell proliferation with an IC₅₀ value of 295 μM and to prevent LPS-induced tumor necrosis factor production from mouse macrophages.¹ Furthermore, long-chain fatty acids, such as *cis*-10-nonadecenoic acid, have been shown to inhibit p53 activity.²

References

1. Fukuzawa, M., Yamaguchi, R., Hide, I., *et al.* Possible involvement of long chain fatty acids in the spores of *Ganoderma lucidum* (Reishi Houshi) to its anti-tumor activity. *Biol. Pharm. Bull.* **31(10)**, 1933-1937 (2008).
2. Iijima, H., Kasai, N., Chiku, H., *et al.* The inhibitory action of long-chain fatty acids on the DNA binding activity of p53. *Lipids* **41(6)**, 521-527 (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.

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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