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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) 

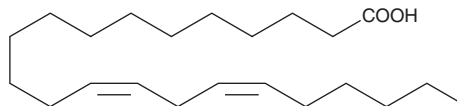
PRODUCT INFORMATION



13Z,16Z-Docosadienoic Acid

Item No. 20749

CAS Registry No.:	17735-98-7
Formal Name:	13Z,16Z-docosadienoic acid
Synonym:	cis-13,16-Docosadienoic Acid
MF:	C ₂₂ H ₄₀ O ₂
FW:	336.6
Purity:	≥98%
Supplied as:	A solution in ethanol
Storage:	-20°C
Stability:	As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly



Laboratory Procedures

13Z,16Z-Docosadienoic acid is supplied as a solution in ethanol. To change the solvent, simply evaporate the 13Z,16Z-docosadienoic 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 13Z,16Z-docosadienoic acid in these solvents is approximately 10 mg/ml.

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. If an organic solvent-free solution of 13Z,16Z-docosadienoic acid is needed, it can be prepared by evaporating the 13Z,16Z-docosadienoic acid and directly dissolving the neat oil in aqueous buffers. The solubility of 13Z,16Z-docosadienoic acid in PBS, pH 7.2, is approximately 0.5 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

13Z,16Z-Docosadienoic acid is a natural ω -6 polyunsaturated fatty acid (PUFA). It is an agonist of free fatty acid receptor 4 (FFAR4, also known as GPR120) and strongly inhibits the secretion of ghrelin by isolated mouse gastric cells.¹ This 20:2 PUFA has been identified in mammals, fish, plants, and anaerobic fungi.²⁻⁶

References

1. Lu, X., Zhao, X., Feng, J., et al. *Am. J. Physiol. Gastrointest. Liver Physiol.* **303**(3), G367-376 (2012).
2. de Oliveira, A.P., de Souza Franco, E., Barreto, R.R., et al. *Evid. Based Complement. Alternat. Med.* e472382 (2013).
3. Gonzales, G.F., Gonzales, C., and Villegas, L. *Toxicol. Mech. Methods* **24**(1), 60-69 (2014).
4. Kim, S.-W., Jhon, M., Kim, J.M., et al. *PLoS One* **11**(3), e0151417 (2016).
5. Koppová, I., Novotná, Z., Štrosová, L., et al. *Folia Microbiol. (Praha)* **53**(3), 217-220 (2008).
6. Wågbø, A.M., Canigalosi, M.V., Ciero, N., et al. *Chem. Res. Toxicol.* **25**(6), 1253-1264 (2012).

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