

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 in



PRODUCT INFORMATION



trans-Petroselinic Acid

Item No. 20026

CAS Registry No.: 593-40-8

Formal Name: 6E-octadecenoic acid Synonyms: Δ^6 -trans-Octadecenoic Acid,

trans-6-Octadecenoic Acid,

Petroselaidic Acid

MF: $C_{18}H_{34}O_{2}$ 282.5 FW: **Purity:** ≥98%

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

trans-Petroselinic acid is supplied as a crystalline solid. A stock solution may be made by dissolving the trans-petroselinic acid in the solvent of choice. trans-Petroselinic 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 trans-petroselinic acid in ethanol and DMF is approximately 25 mg/ml and approximately 10 mg/ml in DMSO.

trans-Petroselinic acid is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, trans-petroselinic acid should first be dissolved in DMF and then diluted with the aqueous buffer of choice. trans-Petroselinic acid has a solubility of approximately 0.25 mg/ml in a 1:1 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

trans-Petroselinic acid is the trans isomer of petroselinic acid (Item No. 20024) and an isomer of oleic acid (Item No. 90260) that has been found in cow, goat, and ewe milk fat as well as human breast milk.^{1,2} In HepG2 cells, trans-petroselinic acid (100 µM) increases cellular content of triacylglycerols and cholesterol esters and upregulates transcription of genes involved in fatty acid synthesis, including SREBP-1c, ACACA, FASN, and SCD1, and cholesterol synthesis, including HMGCR, HMGCS1, FDFT1, and SREBP-2.3

References

- 1. Precht, D., Molkentin, J., Destaillats, F., et al. Comparative studies on individual isomeric 18:1 acids in cow, goat, and ewe milk fats by low-temperature high-resolution capillary gas-liquid chromatography. Lipids 36(8), 827-832 (2001).
- 2. Hauff, S. and Vetter, W. Quantitation of cis- and trans-monounsaturated fatty acids in dairy products and cod liver oil by mass spectrometry in the selected ion monitoring mode. J. Agric. Food Chem. 57(9), 3423-3430 (2009).
- 3. Vahmani, P., Meadus, W.J., Duff, P.T., et al. Comparing the lipogenic and cholesterolgenic effects of individual trans -18:1 isomers in liver cells. Eur. J. Lipid Sci. Technol. 119(3), 1600162 (2017).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

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

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, 08/27/2018

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