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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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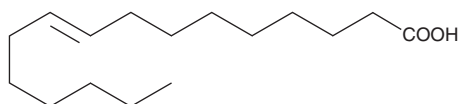
PRODUCT INFORMATION



Palmitelaidic Acid

Item No. 9001798

CAS Registry No.: 10030-73-6
Formal Name: (9E)-hexadecenoic acid
Synonyms: C16:1(9E), 9-*trans*-Hexadecenoic Acid
MF: C₁₆H₃₀O₂
FW: 254.4
Purity: ≥98%
Supplied as: A solution in ethanol
Storage: -20°C
Stability: ≥1 year



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

Laboratory Procedures

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

Description

Palmitelaidic acid is a *trans* isomer of palmitoleic acid (Item Nos. 10009871 | 21911) and dietary fatty acid that has been found in dairy fat products and various partially hydrogenated oils.^{1,2} It decreases nitric oxide (NO) production and levels of soluble E-selectin in isolated human aortic endothelial cells (HAECs) when used at a concentration of 20 μM.¹ Palmitelaidic acid (49 μM) inhibits Sendai virus-induced hemolysis of isolated human erythrocytes.³ Increased serum levels of palmitelaidic acid are associated with higher levels of LDL, but lower levels of triglycerides, fasting insulin, blood pressure, and incidence of diabetes.²

References

- Livingstone, K.M., Givens, D.I., Jackson, K.G., *et al.* Comparative effect of dairy fatty acids on cell adhesion molecules, nitric oxide and relative gene expression in healthy and diabetic human aortic endothelial cells. *Atherosclerosis* **234(1)**, 65-72 (2014).
- Mozaffarian, D., de Oliveira Otto, M.C., Lemaitre, R.N., *et al.* *trans*-Palmitoleic acid, other dairy fat biomarkers, and incident diabetes: The multi-ethnic study of atherosclerosis (MESA). *Am. J. Clin. Nutr.* **97(4)**, 854-861 (2013).
- MacDonald, R.C., Ore, V.D., and MacDonald, R.I. Inhibition of sendai virus-induced hemolysis by long chain fatty acids. *Virology* **134(1)**, 103-117 (1984).

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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