

Produktinformation



Forschungsprodukte & Biochemikalien
Zellkultur & Verbrauchsmaterial
Diagnostik & molekulare Diagnostik
Laborgeräte & Service

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PRODUCT INFORMATION



(±)12(13)-EpOME

Item No. 52450

Formal Name: Synonyms:	(±)12(13)epoxy-9Z-octadecenoic acid (±)2,13-EODE, Isoleukotoxin, (±)-Vernolic Acid	Соон
MF:	$C_{18}H_{32}O_3$	
FW:	296.5	\checkmark \checkmark \checkmark
Chemical Purity:	≥98%	• O •
Supplied as:	A solution in methyl acetate	NOTE: Relative stereochemistry shown in chemical structure
Storage:	-20°C	
Stability:	≥1 year	

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

Laboratory Procedures

(±)12(13)-EpOME is supplied as a solution in methyl acetate. To change the solvent, simply evaporate the methyl acetate 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 $(\pm)12(13)$ -EpOME in these solvents is approximately 50 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 $(\pm)12(13)$ -EpOME is needed, it can be prepared by evaporating the methyl acetate and directly dissolving the neat oil in aqueous buffers. The solubility of (±)12(13)-EpOME in PBS (pH 7.2) is approximately 1 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

(±)12(13)-EpOME is the 12,13-cis epoxide form of linoleic acid (Item Nos. 90150 | 90150.1 | 21909).^{1,2} It is formed primarily via linoleic acid metabolism by the cytochrome P450 (CYP) isoforms CYP2J2, CYP2C8, and CYP2C9, however, CYP1A1 can contribute to $(\pm)12(13)$ -EpOME production when pharmacologically induced.² (\pm)12(13)-EpOME (500 μ M) induces mitochondrial dysfunction and cell death in renal proximal tubule epithelial cells.

References

- 1. Hayakawa, M., Sugiyama, S., Takamura, T., et al. Neutrophils biosynthesize leukotoxin, 9,10-epoxy-12octadecenoate. Biochem. Biophys. Res. Commun. 137(1), 424-430 (1986).
- 2. Hildreth, K., Kodani, S.D., Hammock, B.D., et al. Cytochrome P450-derived linoleic acid metabolites EpOMEs and DiHOMEs: A review of recent studies. J. Nutr. Biochem. 19, 108484 (2020).

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

SAFFTY 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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