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Produktinformation



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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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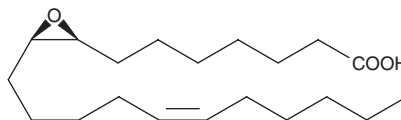
PRODUCT INFORMATION



(±)8(9)-EE-14(Z)-E

Item No. 18112

Formal Name: (±)-(Z)-7-(3-(undec-5-enyl)oxiran-2-yl)heptanoic acid
Synonym: (±)8,9-Epoxyeicosa-14(Z)-enoic Acid
MF: C₂₀H₃₆O₃
FW: 324.5
Purity: ≥95%
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



NOTE: Relative stereochemistry shown in chemical structure

Laboratory Procedures

(±)8(9)-EE-14(Z)-E 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 (±)8(9)-EE-14(Z)-E 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 (±)8(9)-EE-14(Z)-E is needed, it can be prepared by evaporating the ethanol and directly dissolving the neat oil in aqueous buffers. The solubility of (±)8(9)-EE-14(Z)-E 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

(±)14(15)-EE-8(Z)-E (Item No. 10010486) is a potent vasodilator in bovine coronary arteries.^{1,2} The synthesis of this analog involves the formation of the epoxide at the 14,15-double bond, however, epoxidation can also occur at the 8,9-double bond.² (±)8(9)-EE-14(Z)-E is a minor product from the synthesis of (±)14(15)-EE-8(Z)-E. This compound has not been reported in the literature, and its biological activity is not known. It may serve as a tool to verify that the parent compound, (±)14(15)-EE-8(Z)-E, is pure and does not contain the 8,9-epoxy regioisomer.

References

- Gauthier, K.M., Falck, J.R., Reddy, L.M., *et al.* 14,15-EET analogs: Characterization of structural requirements for agonist and antagonist activity in bovine coronary arteries. *Pharmacol. Res.* **49**, 515-524 (2004).
- Falck, J.R., Krishna, U.M., Reddy, Y.K., *et al.* Comparison of vasodilatory properties of 14,15-EET analogs: Structural requirements for dilation. *Am. J. Physiol. Heart Circ. Physiol.* **284**, 337-349 (2003).

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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