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Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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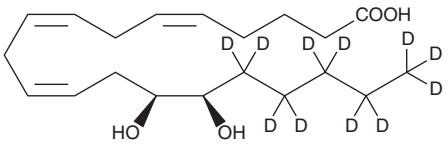
PRODUCT INFORMATION

(±)14(15)-DiHET-d_{11}

Item No. 10008040

Formal Name: (±)14,15-dihydroxy-5Z,8Z,11Z-eicosatrienoic-16,16,17,17,18,18,19,19,20,20,20-d_{11} acid
Synonyms: (±)14,15-DiHETrE-d_{11}
MF: $C_{20}H_{23}D_{11}O_4$
FW: 349.6
Chemical Purity: ≥98% ((±)14(15)-DiHET)
Deuterium Incorporation: ≥99% deuterated forms (d_1-d_{11}); ≤1% d_0
Supplied as: A solution in ethanol
Storage: -20°C
Stability: ≥1 year



NOTE: Relative stereochemistry shown in chemical structure

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

Laboratory Procedures

(±)14(15)-DiHET-d_{11} is intended for use as an internal standard for the quantification of 14(15)-DiHET by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated *versus* unlabeled).

(±)14(15)-DiHET-d_{11} 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 (±)14(15)-DiHET-d_{11} in these solvents is approximately 50 mg/ml.

Description

14(R),15(R)-DiHET and 14(S),15(S)-DiHET are vicinal diols formed via enzymatic hydration of 14(15)-EET by cytosolic or soluble epoxide hydrolases.[1,2] 14(R),15(R)-DiHET is produced at a greater proportion than 14(S),15(S)-DiHET by cytosolic epoxide hydrolase.[1]

References

1. Zeldin, D.C., Kobayashi, J., Falck, J.R., *et al.* Regio- and enantiofacial selectivity of epoxyeicosatrienoic acid hydration by cytosolic epoxide hydrolase. *J. Biol. Chem.* **268(9)**, 6402-6407 (1993).
2. Zhang, G., Kodani, S., and Hammock, B.D. Stabilized epoxygenated fatty acids regulate inflammation, pain, angiogenesis and cancer. *Prog. Lipid Res.* **53**, 108-123 (2014).

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