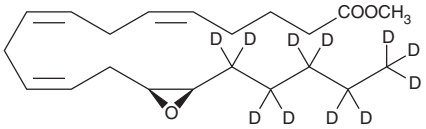
PRODUCT INFORMATION

(±)14(15)-EET-d_{11} methyl ester

Item No. 29383

Formal Name: (±)14,15-epoxy-5Z,8Z,11Z-eicosatrienoic acid-d_{11}, methyl ester
Synonym: (±)14,15-EpETrE-d_{11} methyl ester
MF: $C_{21}H_{23}D_{11}O_3$
FW: 345.6
Chemical Purity: ≥98% ((±)14(15)-EET methyl ester)
Deuterium Incorporation: ≥99% deuterated forms (d_1-d_{11}); ≤1% d_0
Supplied as: A solution in ethanol
Storage: -20°C
Stability: ≥2 years



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)-EET-d_{11} methyl ester is intended for use as an internal standard for the quantification of (±)14(15)-EET methyl ester (Item No. 50650) 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)-EET-d_{11} methyl ester 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)-EET-d_{11} methyl ester in these solvents is approximately 50 mg/ml.

Description

(±)14(15)-EET methyl ester (Item No. 50650) is an esterified form of (±)14(15)-EET (Item No. 50651). 14(S),15(R)-EET and 14(R),15(S)-EET are formed *via* epoxidation of arachidonic acid (Item Nos. 90010 | 90010.1 | 10006607) by a variety of cytochrome P450 (CYP) isoforms.[1] 14(S),15(R)-EET is produced at a higher proportion by CYP2C23, whereas 14(R),15(S)-EET is produced at a greater proportion by CYP2B2 and CYP2C24.

Reference

1. Capdevila, J.H., Falck, J.R., and Harris, R.C. Cytochrome P450 and arachidonic acid bioactivation: Molecular and functional properties of the arachidonate monooxygenase. *J. Lipid Res.* **41(2)**, 163-181 (2000).

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