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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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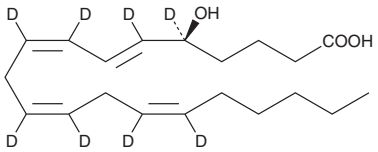
PRODUCT INFORMATION

5(S)-HETE-d_8

Item No. 334230

CAS Registry No.:	330796-62-8
Formal Name:	5S-hydroxy-6E,8Z,11Z,14Z-eicosatetraenoic-5,6,8,9,11,12,14,15-d_8 acid
MF:	$C_{20}H_{24}D_8O_3$
FW:	328.5
Chemical Purity:	≥98% (5-HETE)
Deuterium Incorporation:	≥99% deuterated forms (d_1-d_8); ≤1% d_0
UV/Vis.:	λ_{max}: 236 nm
Supplied as:	A solution in acetonitrile
Storage:	-20°C
Stability:	≥1 year



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

Laboratory Procedures

5(S)-HETE-d_8 is intended for use as an internal standard for the quantification of 5-HETE 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).

5(S)-HETE-d_8 is supplied as a solution in acetonitrile. To change the solvent, simply evaporate the acetonitrile under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as ethanol, DMSO, and dimethyl formamide (DMF) purged with an inert gas can be used. The solubility of 5(S)-HETE-d_8 in is these solvents is approximately 50 mg/ml.

Description

5(S)-HETE-d_8 is intended for use as an internal standard for the quantification of 5-HETE by GC- or LC-MS. (±)5-HETE is formed via non-enzymatic oxidation of arachidonic acid (Item Nos. 90010 | 90010.1 | 10006607).[1] 5(S)- and 5(R)-HETE are formed by lipoxygenase-mediated oxidation of arachidonic acid.[2,3]

References

1. Astarita, G., Kendall, A.C., Dennis, E.A., *et al*. Targeted lipidomics strategies for oxygenated metabolites of polyunsaturated fatty acid. *Biochim. Biophys. Acta* **1851(4)**, 456-468 (2015).
2. Dodge, W. and Thomas, M. The effect of 5-hydroxyeicosatetraenoic acid on the proliferation of granulocyte progenitors and embryonic fibroblasts of the chick. *Biochem. Biophys. Res. Commun*. **131(2)**, 731-735 (1985).
3. Hada, T., Swift, L.L., and Brash, A.R. Discovery of 5R-lipoxygenase activity in oocytes of the surf clam, *Spisula solidissima*. *Biochimica et Biophysica Acta* **1346(2)**, 109-119 (1997).

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