

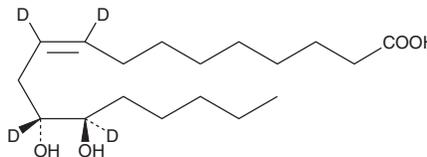
# PRODUCT INFORMATION



## (±)12(13)-DiHOME-d<sub>4</sub>

Item No. 10009994

<b>Formal Name:</b>	(±)12,13-dihydroxy-9Z-octadecenoic-9,10,12,13-d <sub>4</sub> acid
<b>Synonym:</b>	Isoleukotoxin diol-d <sub>4</sub>
<b>MF:</b>	C <sub>18</sub> H <sub>30</sub> D <sub>4</sub> O <sub>4</sub>
<b>FW:</b>	318.5
<b>Chemical Purity:</b>	≥98% (±)12(13)-DiHOME
<b>Deuterium Incorporation:</b>	≥99% deuterated forms (d <sub>1</sub> -d <sub>4</sub> ); ≤1% d <sub>0</sub>
<b>Supplied as:</b>	A solution in methyl acetate
<b>Storage:</b>	-20°C
<b>Stability:</b>	≥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

(±)12(13)-DiHOME-d<sub>4</sub> is intended for use as an internal standard for the quantification of (±)12(13)-DiHOME (Item No. 10009832) 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).

(±)12(13)-DiHOME-d<sub>4</sub> 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 (±)12(13)-DiHOME-d<sub>4</sub> in these solvents is approximately 20 mg/ml.

### Description

12(13)-DiHOME is the diol form of 12(13)-EpOME, a cytochrome P450-derived epoxide of linoleic acid also known as isoleukotoxin.<sup>1</sup> It is formed from 12(13)-EpOME by soluble epoxide hydrolase (sEH) in neutrophils.<sup>2</sup>

### References

- Greene, J.F., Williamson, K.C., Newman, J.W., et al. *Arch. Biochem. Biophys.* **376**(2), 420-432 (2000).
- Moghaddam, M.F., Grant, D.F., Cheek, J.M., et al. *Nat. Med.* **3**(5), 562-566 (1997).

#### 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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#### 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