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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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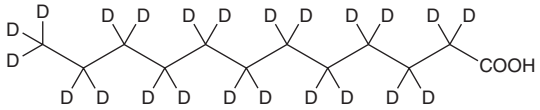
PRODUCT INFORMATION

Lauric Acid-d_{23}

Item No. 28080

CAS Registry No.: 59154-43-7
Formal Name: dodecanoic-2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-d_{23} acid
Synonyms: C12:0-d_{23}, Dodecanoic Acid-d_{23}
MF: $C_{12}HD_{23}O_2$
FW: 223.5
Chemical Purity: ≥98% (Lauric Acid)
Deuterium Incorporation: ≥99% deuterated forms (d_1-d_{23}); ≤1% d_0
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥2 years



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

Laboratory Procedures

Lauric acid-d_{23} is intended for use as an internal standard for the quantification of lauric acid (Item No. 10006626) 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).

Lauric acid-d_{23} is supplied as a crystalline solid. A stock solution may be made by dissolving the lauric acid-d_{23} in the solvent of choice, which should be purged with an inert gas. Lauric acid-d_{23} is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of lauric acid-d_{23} in ethanol and DMF is approximately 30 mg/ml and approximately 20 mg/ml in DMSO.

Description

Lauric acid is a common 12-carbon saturated fatty acid that has been found in *A. mollis*.[1] It induces COX-2 expression and COX-2 reporter gene activity in RAW 264.7 cells when used at a concentration of 25 mM.[2]

References

1. Liu, F., Zamora, L., Jeffs, A., *et al.* Biochemical composition of the Australasian sea cucumber, *Australostichopus mollis*, from a nutritional point of view. *Nutrire* **42:12**, (2017).
2. Lee, J.Y., Sohn, K.H., Rhee, S.H., *et al.* Saturated fatty acids, but not unsaturated fatty acids, induced the expression of cyclooxygenase-2 mediated through toll-like receptor 4. *J. Biol. Chem.* **276(20)**, 16683-16689 (2001).

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