



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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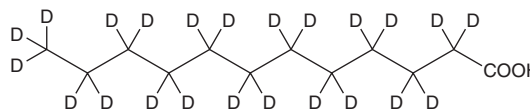
[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

# PRODUCT INFORMATION



## Lauric Acid-d<sub>23</sub> 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<sub>23</sub> acid  
**Synonyms:** C12:0-d<sub>23</sub>, Dodecanoic Acid-d<sub>23</sub>  
**MF:** C<sub>12</sub>HD<sub>23</sub>O<sub>2</sub>  
**FW:** 223.5  
**Chemical Purity:** ≥98% (Lauric Acid)  
**Deuterium Incorporation:** ≥99% deuterated forms (d<sub>1</sub>-d<sub>23</sub>); ≤1% d<sub>0</sub>  
**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<sub>23</sub> 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<sub>23</sub> is supplied as a crystalline solid. A stock solution may be made by dissolving the lauric acid-d<sub>23</sub> in the solvent of choice, which should be purged with an inert gas. Lauric acid-d<sub>23</sub> is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of lauric acid-d<sub>23</sub> 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*.<sup>1</sup> It induces COX-2 expression and COX-2 reporter gene activity in RAW 264.7 cells when used at a concentration of 25 mM.<sup>2</sup>

### 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).

#### 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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