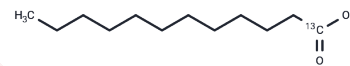


Lauric Acid-13C

Chemical Properties

CAS No. :	93639-08-8
Formula:	C ₁₂ H ₂₄ O ₂
Molecular Weight:	201.314
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Lauric Acid-13C is intended for use as an internal standard for the quantification of Lauric Acid (TMSM-1441) by GC- or LC-MS. Lauric acid is a medium-chain saturated fatty acid. It has been found at high levels in coconut oil. 1 Lauric acid induces the activation of NF-κB and the expression of COX-2, inducible nitric oxide synthase (iNOS), and IL-1α in RAW 264.7 cells when used at a concentration of 25 μM. 2
Targets(IC50)	Endogenous Metabolite, Antibacterial

Solubility Information

Solubility	Ethanol: 30 mg/mL (149.02 mM), Sonication is recommended. DMSO: 20 mg/mL (99.35 mM), Sonication is recommended. DMF: 30 mg/mL (149.02 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.9675 mL	24.8373 mL	49.6746 mL
5 mM	0.9935 mL	4.9675 mL	9.9349 mL
10 mM	0.4967 mL	2.4837 mL	4.9675 mL
50 mM	0.0993 mL	0.4967 mL	0.9935 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Laureles, L.R., Rodriguez, F.M., Reaño, C.E., et al. Variability in fatty acid and triacylglycerol composition of the oil of coconut (*Cocos nucifera* L.) hybrids and their parentals. *J. Agric. Food Chem.* 50(6):1581-1586 (2002)

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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