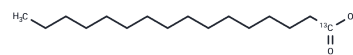


Palmitic acid-1-13C

Chemical Properties

CAS No. :	57677-53-9
Formula:	C16H32O2
Molecular Weight:	257.422
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Palmitic acid-13C is intended for use as an internal standard for the quantification of palmitic acid by GC- or LC-MS. Palmitic acid is a 16-carbon saturated fatty acid. It comprises approximately 25% of human total plasma lipids. ¹ It increases protein levels of COX-2 in RAW 264.7 cells when used at a concentration of 75 µM. ² Palmitic acid is involved in the acylation of proteins to anchor membrane-bound proteins to the lipid bilayer. ^{2,3,4,5,6}
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Solubility Information

Solubility	Ethanol: 30 mg/mL DMF: 20 mg/mL DMSO: 20 mg/mL Ethanol:PBS (pH 7.2) (1:2): 0.25 mg/mL (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.8847 mL	19.4235 mL	38.847 mL
5 mM	0.7769 mL	3.8847 mL	7.7694 mL
10 mM	0.3885 mL	1.9424 mL	3.8847 mL
50 mM	0.0777 mL	0.3885 mL	0.7769 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.

Reference

Santos, M.J., López-Jurado, M., Llopis, J., et al. Influence of dietary supplementation with fish oil on plasma fatty acid composition in coronary heart disease patients. Ann. Nutr. Metab. 39(1), 52-62 (1995).

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