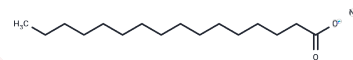


## Palmitic acid sodium

## Chemical Properties

CAS No. :	408-35-5
Formula:	C <sub>16</sub> H <sub>31</sub> NaO <sub>2</sub>
Molecular Weight:	278.41
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	Palmitic acid sodium (Sodium palmitate) is a type of saturated fatty acid that is formed in fatty acid synthesis. Palmitic acid sodium promotes adipogenesis and cellular lipotrophy in a variety of cell lines.
Targets(IC50)	Others, HSP, Endogenous Metabolite
In vitro	Palmitic acid sodium is a biochemical reagent utilized in life science research, serving as a biological material or organic compound.

## Solubility Information

Solubility	Ethanol: 5 mg/mL (17.96 mM), Sonication and heating are recommended. H <sub>2</sub> O: < 1 mg/mL (insoluble) DMSO: < 1 mg/mL (insoluble) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5918 mL	17.9591 mL	35.9183 mL
5 mM	0.7184 mL	3.5918 mL	7.1837 mL
10 mM	0.3592 mL	1.7959 mL	3.5918 mL
50 mM	0.0718 mL	0.3592 mL	0.7184 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

- Zhao M, et al. Palmitic Acid Downregulates Thyroglobulin (Tg), Sodium Iodide Symporter (NIS), and Thyroperoxidase (TPO) in Human Primary Thyrocytes: A Potential Mechanism by Which Lipotoxicity Affects Thyroid? Int J Endocrinol. 2018 Oct 17;2018:4215848.
- Wu YL, et al. J Virol. 2015 Dec 4;90(4):1729-40.

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