

2-Hydroxypalmitic acid

Chemical Properties

CAS No. :	764-67-0
Formula:	C16H32O3
Molecular Weight:	272.423
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

Biological Description

Description	2-Hydroxypalmitic acid is a saturated long-chain 2-hydroxy fatty acid with potential anti-inflammatory, antibacterial, anticancer, and neuroprotective activities, and it can also function as a surfactant.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	DMSO: ≥ 40 mg/mL, 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	3.6708 mL	18.354 mL	36.708 mL
5 mM	0.7342 mL	3.6708 mL	7.3416 mL
10 mM	0.3671 mL	1.8354 mL	3.6708 mL
50 mM	0.0734 mL	0.3671 mL	0.7342 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

Kondo N, et al. Identification of the phytosphingosine metabolic pathway leading to odd-numbered fatty acids [published correction appears in Nat Commun. 2015;6:6815]. Nat Commun. 2014;5:5338. Published 2014 Oct 27.

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