

Hexadecanal

Chemical Properties

CAS No. : 629-80-1

Formula: C₁₆H₃₂O

Molecular Weight: 240.42

Store at low temperature

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	Hexadecanal (Palmitaldehyde) is a free fatty aldehyde found in animals.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	DMSO: 7.04 mg/mL (29.28 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 0.7 mg/mL (2.91 mM),Suspension. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.1594 mL	20.7969 mL	41.5939 mL
5 mM	0.8319 mL	4.1594 mL	8.3188 mL
10 mM	0.4159 mL	2.0797 mL	4.1594 mL
50 mM	0.0832 mL	0.4159 mL	0.8319 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

Gilbertson JR, et al. Isolation and analysis of free fatty aldehydes from rat, dog, and bovine heart muscle. J Lipid Res. 1967 Jan;8(1):38-45.

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