

1-Tetradecanol

Chemical Properties

CAS No. :	112-72-1
Formula:	C14H30O
Molecular Weight:	214.39
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	1-Tetradecanol is a natural product with antibacterial and anti-inflammatory properties.
Targets(IC50)	Antibacterial, Interleukin

Solubility Information

Solubility	DMSO: 250 mg/mL (1166.1 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (9.33 mM), Sonication is recommended. <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	4.6644 mL	23.322 mL	46.644 mL
5 mM	0.9329 mL	4.6644 mL	9.3288 mL
10 mM	0.4664 mL	2.3322 mL	4.6644 mL
50 mM	0.0933 mL	0.4664 mL	0.9329 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

XiaoyeGeng, et al. Design and fabrication of reversible thermochromic microencapsulated phase change materials for thermal energy storage and its antibacterial activity. Energy. Volume 159, 15 September 2018, Pages 857-869.

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