

1-Dodecanol

Chemical Properties

CAS No. :	112-53-8
Formula:	C ₁₂ H ₂₆ O
Molecular Weight:	186.33
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-Dodecanol, an endogenous metabolite and saturated fatty alcohol derived from coconut oil fatty acids, is characterized by a floral odor. It is utilized in detergents, Lepidopteran pheromone/sex attractant, lubricating oils, pesticides, and pharmaceuticals.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	DMSO: 45 mg/mL (241.51 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 (10.73 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	5.3668 mL	26.8341 mL	53.6682 mL
5 mM	1.0734 mL	5.3668 mL	10.7336 mL
10 mM	0.5367 mL	2.6834 mL	5.3668 mL
50 mM	0.1073 mL	0.5367 mL	1.0734 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

Lee Y, Jung SW, Park SH, Yoo JW, Park J. Synthesis of Tungsten-Doped Vanadium Dioxide Using a Modified Polyol Method Involving 1-Dodecanol. *Materials (Basel)*. 2020 Nov 27;13(23):5384. doi: 10.3390/ma13235384. PMID: 33260827; PMCID: PMC7730659.

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