

Methyl stearate

Chemical Properties

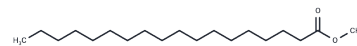
CAS No. : 112-61-8

Formula: C19H38O2

Molecular Weight: 298.50

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	Methyl stearate (Methyl Octadecanoate) is found in cloves. Antifoaming agent and fermentation nutrient.
Targets(IC50)	Others,Parasite

Solubility Information

Solubility	DMSO: 9.81 mg/mL (32.86 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 0.98 mg/mL (3.28 mM),Solution. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (3.35 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	3.3501 mL	16.7504 mL	33.5008 mL
5 mM	0.670 mL	3.3501 mL	6.7002 mL
10 mM	0.335 mL	1.675 mL	3.3501 mL
50 mM	0.067 mL	0.335 mL	0.670 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

- Arapitsas, P., Scholz, M., Vrhovsek, U., Di Blasi, S., Biondi Bartolini, A., & Masuero, D. et al. (2012). A Metabolomic Approach to the Study of Wine Micro-Oxygenation. *Plos ONE*, 7(5), e37783. doi: 10.1371/journal.pone.0037783
- Wu, D., Yang, Z., Wang, W., Tian, G., Xu, S., & Sims, A. (2012). Ozonation as an advanced oxidant in treatment of bamboo industry wastewater. *Chemosphere*, 88(9), 1108-1113. doi: 10.12016/j.chemosphere.2012.05.2011
- Huang, C., Zhang, H., Zhao, Y., Chen, S., & Liu, Z. (2012). Diatomite-supported Pd-M (M=Cu, Co, Ni) bimetal nanocatalysts for selective hydrogenation of long-chain aliphatic esters. *Journal Of Colloid And Interface Science*, 386(1), 60-65. doi: 10.12016/j.jcis.2012.07.032

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