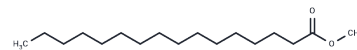


Methyl palmitate

Chemical Properties

CAS No. :	112-39-0
Formula:	C17H34O2
Molecular Weight:	270.45
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 hexadecanoate is an acaricidal compound found in green walnut hulls with anti-inflammatory and antifibrotic properties, inhibiting phagocytic activity and immune response.
Targets(IC50)	Parasite, Interleukin, TNF

Solubility Information

Solubility	DMSO: 5 mg/mL (18.49 mM), 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	3.6975 mL	18.4877 mL	36.9754 mL
5 mM	0.7395 mL	3.6975 mL	7.3951 mL
10 mM	0.3698 mL	1.8488 mL	3.6975 mL
50 mM	0.074 mL	0.3698 mL	0.7395 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

Wang, T., Chen, W., Zeng, H., & Chen, D. (2012). Chemical Components in Extracts from *Plastrum Testudinis* with Proliferation-Promoting Effects on Rat Mesenchymal Stem Cells. *Chemical Biology & Drug Design*, 79(6), 1049-1055. doi: 10.1111/j.1747-0285.2012.01361.x

Jemia, M., Formisano, C., Bancheva, S., Bruno, M., & Senatore, F. (2012). Chemical Composition of the Essential Oils of *Centaurea formanekii* and *C. orphanidea* ssp. *thessala*, Growing Wild in Greece. *Natural Product Communications*, 7(8), 1934578X1200700. doi: 10.1177/1934578x12007200830

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