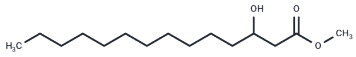
Data Sheet (Cat.No.T36737)

TargetMol

3-hydroxy Myristic Acid methyl ester

Chemical Properties



CAS No. : 55682-83-2

Formula: C15H30O3

Molecular Weight: 258.402

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	3-hydroxy Myristic acid methyl ester is a hydroxylated fatty acid methyl ester that has been found in E. camaldulensis and E. torelliana extracts. [1] It is active against M. tuberculosis (MIC = 49.5 µg/ml) and is non-cytotoxic to Vero cells (IC50 = >100 µM). 3-hydroxy Myristic acid methyl ester is also a volatile compound that contributes to the aroma of red wild strawberries (F. pentaphylla) but is not present in cultivated strawberries (Fragaria x ananassa).[2]
Targets(IC50)	Others,Antifungal

Solubility Information

Solubility	Ether: Soluble Methanol: Soluble Chloroform: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.870 mL	19.3498 mL	38.6997 mL
5 mM	0.774 mL	3.870 mL	7.7399 mL
10 mM	0.387 mL	1.935 mL	3.870 mL
50 mM	0.0774 mL	0.387 mL	0.774 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

Lawal, T.O., Adeniyi, B.A., Adegoke, A.O., et al. In vitro susceptibility of Mycobacterium tuberculosis to extracts of Eucalyptus camaldulensis and Eucalyptus torelliana and isolated compounds. Pharm. Biol. 50(1), 92-98 (2012).
Duan, W., Sun, P., Chen, L., et al. Comparative analysis of fruit volatiles and related gene expression between the wild strawberry Fragaria pentaphylla and cultivated Fragaria × ananassa. Eur. Food Res. Technol. 244(1), 57-72 (2018).

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