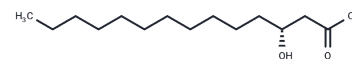


**(R)-3-hydroxy Myristic Acid****Chemical Properties**

CAS No. :	28715-21-1
Formula:	C <sub>14</sub> H <sub>28</sub> O <sub>3</sub>
Molecular Weight:	244.37
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	(R)-3-hydroxy Myristic Acid is an antifungal compound from Lactobacillus plantarum MiLAB 14 with antioxidant, anti-elastase, and anti-urease activities and can be used in the study of fungal infections.
Targets(IC50)	Others,Antioxidant,Antifungal,Serine Protease

**Solubility Information**

Solubility	DMSO: 5 mg/mL (20.46 mM),Sonication is recommended. DMF: 5 mg/mL (20.46 mM),Sonication is recommended. Ethanol: 5 mg/mL (20.46 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	4.0922 mL	20.4608 mL	40.9216 mL
5 mM	0.8184 mL	4.0922 mL	8.1843 mL
10 mM	0.4092 mL	2.0461 mL	4.0922 mL
50 mM	0.0818 mL	0.4092 mL	0.8184 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**

- Sarmikasoglou E, et al. Ruminal bacteria lipopolysaccharides: an immunological and microbial outlook. J Anim Sci Biotechnol. 2022 Apr 14;13(1):41.
- Kaur M, et al. The Indigenous Volatile Inhibitor 2-Methyl-2-butene Impacts Biofilm Formation and Interspecies Interaction of the Pathogenic Mucorale Rhizopus arrhizus. Microb Ecol. 2022 Feb;83(2):506-512.

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