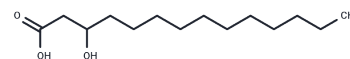


## 3-Hydroxytetradecanoic acid

## Chemical Properties

CAS No. :	1961-72-4
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	3-Hydroxytetradecanoic acid is a natural saturated fatty acid and a component of bacterial LPS, commonly used in the composition of lipids and the synthesis of surfactants, widely applied in research and experiments in the field of life sciences.
Targets(IC50)	Others
In vitro	Novel synthetic analogs of the non-reducing sugar subunit of bacterial lipid A composed exclusively of 3-Hydroxytetradecanoic acid and its homologues that exhibit significant mitogenic activity.[1]

## Solubility Information

Solubility	Ethanol: 80 mg/mL (327.37 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

Ishida H, et al. Synthesis and mitogenic activity of nonreducing-sugar subunit analogs of bacterial lipid A composed only of 3-Hydroxytetradecanoic acid and its homologs. Biosci Biotechnol Biochem. 1995 Sep;59(9): 1790-2.

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