

## 3-Hydroxy tridecanoic acid

## Chemical Properties

CAS No. : 32602-69-0

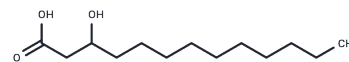
Formula: C<sub>13</sub>H<sub>26</sub>O<sub>3</sub>

Molecular Weight: 230.34

Store at low temperature

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 tridecanoic acid is a 13-carbon saturated fatty acid found in bacterial lipopolysaccharides (LPS). It can be used as an internal standard to detect markers of microorganisms in complex samples, including 3-hydroxy fatty acids found in LPS-containing bacteria and muramic acid found in bacterial cell wall peptidoglycan.
Targets(IC50)	Others

## Solubility Information

Solubility	DMSO: 10 mg/mL (43.41 mM),Sonication is recommended. DMF: 10 mg/mL (43.41 mM),Sonication is recommended. Ethanol: 1 mg/mL (4.34 mM),Sonication is recommended. DMSO:PBS (pH 7.2) (1:2): < 1 mg/mL (insoluble),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	4.3414 mL	21.707 mL	43.4141 mL
5 mM	0.8683 mL	4.3414 mL	8.6828 mL
10 mM	0.4341 mL	2.1707 mL	4.3414 mL
50 mM	0.0868 mL	0.4341 mL	0.8683 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

Sebastian A, et al. Characterization of the microbial community in indoor environments by chemical marker analysis: an update and critical evaluation. *Indoor Air*. 2005;15 Suppl 9:20-6.

Zhao H, et al. In-depth LC-MS and in-vitro studies of a triterpenoid saponin capilliposide-A metabolism modulation in gut microbiota of mice. *Front Pharmacol*. 2024 Mar 14;15:1361643.

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