

## 6-Hydroxyhexanoic acid

## Chemical Properties

CAS No. : 1191-25-9

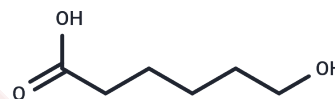
Formula: C<sub>6</sub>H<sub>12</sub>O<sub>3</sub>

Molecular Weight: 132.16

Keep away from direct sunlight

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	6-Hydroxyhexanoic acid is a long-chain fatty acid containing a hydroxyl group, widely used in biochemical experiments and drug synthesis research.
Targets(IC50)	Others
In vitro	6-Hydroxyhexanoic acid (0.1 μM) inhibits the production of pro-inflammatory cytokines in human gingival fibroblasts. [1]
In vivo	<b>Methods:</b> Wild-type HFD-fed mice were treated with 6-Hydroxyhexanoic acid (1.1, 2.2 μg/kg, ip, 3 weeks) to investigate the role of 6-HHA in the context of obesity in vivo. <b>Results:</b> 6-Hydroxyhexanoic acid (2.2 μg/kg) significantly reduced the HFD-induced increase in BW. [1]

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	7.5666 mL	37.8329 mL	75.6659 mL
5 mM	1.5133 mL	7.5666 mL	15.1332 mL
10 mM	0.7567 mL	3.7833 mL	7.5666 mL
50 mM	0.1513 mL	0.7567 mL	1.5133 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

Sebag SC, et al. A Medium Chain Fatty Acid, 6-hydroxyhexanoic acid (6-HHA), Protects Against Obesity and Insulin Resistance. bioRxiv [Preprint]. 2023 Jul 20:2023.07.19.549684.

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