

## Mead acid

## Chemical Properties

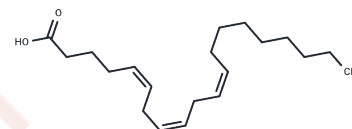
CAS No. : 20590-32-3

Formula: C<sub>20</sub>H<sub>34</sub>O<sub>2</sub>

Molecular Weight: 306.49

Storage: Store at low temperature, Keep away from moisture  
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	Mead acid is an unsaturated fatty acid belonging to the Omega-9 series that is biochemically characterized as a marker of essential fatty acid deficiency, Mead acid accumulation in biological tissues is commonly used as an indicator of altered lipid metabolism, nutritional imbalance, and disrupted fatty acid homeostasis in both clinical and experimental research settings.
Targets(IC50)	Others, Endogenous Metabolite
In vivo	<b>Method:</b> Mead acid was tested in vitro against KPL-1 human breast cancer cells for 72 h and evaluated in vivo in female athymic mice bearing KPL-1 tumors. <b>Result:</b> Mead acid inhibited KPL-1 cell growth with an IC <sub>50</sub> of 214.2 μM and significantly suppressed tumor growth and axillary lymph node metastasis in mice[1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2627 mL	16.3137 mL	32.6275 mL
5 mM	0.6525 mL	3.2627 mL	6.5255 mL
10 mM	0.3263 mL	1.6314 mL	3.2627 mL
50 mM	0.0653 mL	0.3263 mL	0.6525 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

J B Lefkowitz, et al. Essential fatty acid deficiency: a new look at an old problem. Prostaglandins Leukot Med. 1986 Aug;23(2-3):123-7.

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