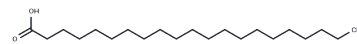


## Heneicosanoic acid

## Chemical Properties

CAS No. :	2363-71-5
Formula:	C <sub>21</sub> H <sub>42</sub> O <sub>2</sub>
Molecular Weight:	326.56
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	Heneicosanoic acid (C <sub>21</sub> :0) (HEA) is a fatty acid found in human milk fat. HEA is also a part of the phospholipids of the articular cartilage boundary lubricant. HEA is a constituent of red blood cell fatty acids.
Targets(IC50)	Endogenous Metabolite

## Solubility Information

Solubility	Ethanol: 20 mg/mL (61.24 mM), Sonication is recommended. DMSO: 22.95 mg/mL (70.28 mM), Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% EtOH+90% Corn Oil: 1 mg/mL (3.06 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0622 mL	15.3111 mL	30.6222 mL
5 mM	0.6124 mL	3.0622 mL	6.1244 mL
10 mM	0.3062 mL	1.5311 mL	3.0622 mL
50 mM	0.0612 mL	0.3062 mL	0.6124 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

Mosley EE, et al. trans Fatty acids in milk produced by women in the United States. Am J Clin Nutr. 2005 Dec;82(6): 1292-7.

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