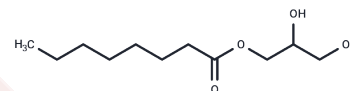


MONOCAPRYLIN

Chemical Properties

CAS No. :	26402-26-6
Formula:	C11H24O5
Molecular Weight:	236.31
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Monocaprylin (Sefsol 318) is a monoglyceride of caprylic acid with an excellent antibacterial activity. Monocaprylin inhibits a variety of foodborne pathogenic and spoilage microorganisms and has the potential for an alternative food preservative research.
Targets(IC50)	Antibacterial

Solubility Information

Solubility	DMSO: 100 mg/mL (423.17 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 3.3 mg/mL (13.96 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	4.2317 mL	21.1586 mL	42.3173 mL
5 mM	0.8463 mL	4.2317 mL	8.4635 mL
10 mM	0.4232 mL	2.1159 mL	4.2317 mL
50 mM	0.0846 mL	0.4232 mL	0.8463 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

M K M Nair, et al. Antibacterial effect of caprylic acid and monocaprylin on major bacterial mastitis pathogens. J Dairy Sci. 2005 Oct;88(10):3488-95.

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