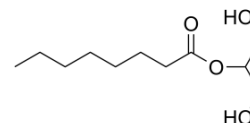
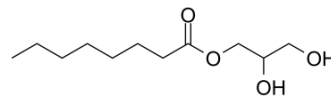


## Monocaprylin

Cat. No.:	HY-138650
CAS No.:	26402-26-6
Molecular Formula:	C <sub>11</sub> H <sub>22</sub> O <sub>4</sub>
Molecular Weight:	218.29
Target:	Bacterial
Pathway:	Anti-infection
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (458.11 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
			1 mM	4.5811 mL	22.9053 mL	45.8106 mL
			5 mM	0.9162 mL	4.5811 mL	9.1621 mL
			10 mM	0.4581 mL	2.2905 mL	4.5811 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (11.45 mM); Clear solution					

### BIOLOGICAL ACTIVITY

Description	Monocaprylin (Glyceryl monocaprylate), a monoglyceride of caprylic acid, exhibits an excellent antibacterial activity. Monocaprylin inhibits a variety of foodborne pathogenic and spoilage microorganisms and has the potential for an alternative food preservative research <sup>[1]</sup> .
In Vitro	Monocaprylin (Glyceryl monocaprylate; 25, 50 mM; 24 h) reduces all 5 pathogens (Strep. agalactiae, Strep. dysgalactiae, Strep. uberis, Staph. aureus, and E. coli) by >5.0 log cfu/mL after 6 h of incubation <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. 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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**Caution: Product has not been fully validated for medical applications. For research use only.**

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