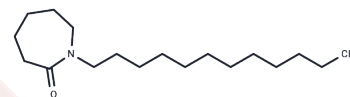


## Laurocapram

## Chemical Properties

CAS No. :	59227-89-3
Formula:	C <sub>18</sub> H <sub>35</sub> NO
Molecular Weight:	281.48
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	Laurocapram (N-Lauryl caprolactam) is a percutaneous enhancer. Upon application to the skin, laurocapram interacts with lipids in the stratum corneum and may enhance the ability of the skin to absorb a hydrophilic chemical.
Targets(IC50)	Others

## Solubility Information

Solubility	DMSO: 50 mg/mL (177.63 mM),Sonication is recommended. H <sub>2</sub> O: 100 mg/mL (355.27 mM),Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (7.11 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	3.5527 mL	17.7633 mL	35.5265 mL
5 mM	0.7105 mL	3.5527 mL	7.1053 mL
10 mM	0.3553 mL	1.7763 mL	3.5527 mL
50 mM	0.0711 mL	0.3553 mL	0.7105 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

- Xue, X., Zhou, Y., Chen, Y., Meng, J., Jia, M., & Hou, Z. et al. (2011). Promoting effects of chemical permeation enhancers on insulin permeation across TR146 cell model of buccal epithelium in vitro. *Drug And Chemical Toxicology*, 35(2), 199-207. doi: 10.3109/01480545.2011.589848
- del Rio-Sancho, S., Serna-Jiménez, C., Calatayud-Pascual, M., Balaguer-Fernández, C., Femenía-Font, A., Merino, V., & López-Castellano, A. (2012). Transdermal absorption of memantine - Effect of chemical enhancers, iontophoresis, and role of enhancer lipophilicity. *European Journal Of Pharmaceutics And Biopharmaceutics*, 82(1), 164-170. doi: 10.12016/j.ejpb.2012.06.2005

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