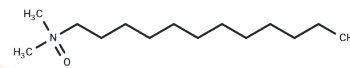


## Lauramine oxide

## Chemical Properties

CAS No. :	1643-20-5
Formula:	C <sub>14</sub> H <sub>31</sub> NO
Molecular Weight:	229.4
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	Lauramine oxide (Refan) is effective against common bacteria such as E. coli and S. aureus, however it is non-denaturing and may be used to solubilize proteins.
Targets(IC50)	Antibacterial

## Solubility Information

Solubility	DMSO: 7.94 mg/mL (34.61 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 0.79 mg/mL (3.44 mM), Solution. <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	4.3592 mL	21.796 mL	43.592 mL
5 mM	0.8718 mL	4.3592 mL	8.7184 mL
10 mM	0.4359 mL	2.1796 mL	4.3592 mL
50 mM	0.0872 mL	0.4359 mL	0.8718 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

Ríos F, Lechuga M, Fernández-Arteaga A, Jurado E, Fernández-Serrano M. Anaerobic digestion of amine-oxide-based surfactants: biodegradation kinetics and inhibitory effects. *Biodegradation*. 2017 Aug;28(4):303-312. doi: 10.1007/s10532-017-9797-6. Epub 2017 May 31. PubMed PMID: 28567707.

Ríos F, Lechuga M, Fernández-Serrano M, Fernández-Arteaga A. Aerobic biodegradation of amphoteric amine-oxide-based surfactants: Effect of molecular structure, initial surfactant concentration and pH. *Chemosphere*. 2017 Mar;171:324-331. doi: 10.1016/j.chemosphere.2016.12.070. Epub 2016 Dec 18. PubMed PMID: 28027477.

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