

## Lanolin

## Chemical Properties

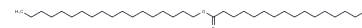
CAS No. : 8006-54-0

Formula: C34H68O2

Molecular Weight: 508.92

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Lanolin (wool wax) is a wax secreted by the sebaceous glands of wool-bearing animals.
Targets(IC50)	Others, Antibacterial

## Solubility Information

Solubility	DMSO: 5.09 mg/mL (10 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: 1 mg/mL (1.96 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	1.9649 mL	9.8247 mL	19.6495 mL
5 mM	0.393 mL	1.9649 mL	3.9299 mL
10 mM	0.1965 mL	0.9825 mL	1.9649 mL
50 mM	0.0393 mL	0.1965 mL	0.393 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

Sharma G, et al. Lanolin-based organogel of salicylic acid: evidences of better dermatokinetic profile in imiquimod-induced keratolytic therapy in BALB/c mice model. Drug Deliv Transl Res. 2017 Feb 21.

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