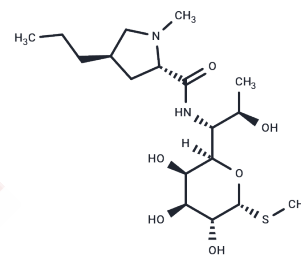


## Lincomycin

## Chemical Properties

CAS No. :	154-21-2
Formula:	C <sub>18</sub> H <sub>34</sub> N <sub>2</sub> O <sub>6</sub> S
Molecular Weight:	406.54
Storage:	Keep away from moisture Powder: -20°C for 3 years   In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



## Biological Description

Description	Lincomycin (U-10149) is a lincosamide antibiotic from Streptomyces that is effective against most susceptible gram-positive and cell wall-less bacteria and is generally used in patients for whom penicillin is not available.
Targets(IC50)	Antibacterial, Antibiotic
In vivo	Lincomycin (5g/L in drinking water for 7 days) caused intestinal and liver injury, inflammation, and gut microbiota imbalance in 21-day-old ICR mice, indicating toxicity via the gut-liver axis[1].

## Solubility Information

Solubility	DMSO: 80 mg/mL (196.78 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: 3.3 mg/mL (8.12 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	2.4598 mL	12.2989 mL	24.5978 mL
5 mM	0.492 mL	2.4598 mL	4.9196 mL
10 mM	0.246 mL	1.2299 mL	2.4598 mL
50 mM	0.0492 mL	0.246 mL	0.492 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

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