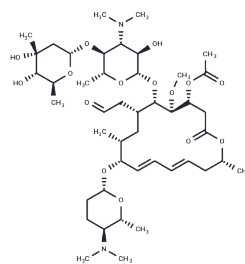


## Acetylspiramycin

## Chemical Properties

CAS No. :	24916-51-6
Formula:	C <sub>45</sub> H <sub>76</sub> N <sub>2</sub> O <sub>15</sub>
Molecular Weight:	885.09
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	Acetylspiramycin (Spiramycin B) targets 50S ribosome to inhibit protein synthesis.
Targets(IC50)	ribosome,Antibacterial,Antibiotic,Parasite

## Solubility Information

Solubility	DMSO: 27.5 mg/mL (31.07 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 (2.26 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	1.1298 mL	5.6491 mL	11.2983 mL
5 mM	0.226 mL	1.1298 mL	2.2597 mL
10 mM	0.113 mL	0.5649 mL	1.1298 mL
50 mM	0.0226 mL	0.113 mL	0.226 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

Kondo A, et al. Jpn J Antibiot. 1990 Sep;43(9):1521-9.

Li H, Li J, Li J, et al. Carrimycin inhibits coronavirus replication by decreasing the efficiency of programmed-1 ribosomal frameshifting through directly binding to the RNA pseudoknot of viral frameshift-stimulatory element. Acta Pharmaceutica Sinica B.2024

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