Lincomycin hydrochloride

Cat. No.: HY-B0417A

CAS No.: 859-18-7

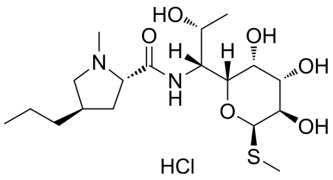
Molecular Formula: $C_{18}H_{35}ClN_2O_6S$

Molecular Weight: 443

Target: Bacterial; Antibiotic

Pathway: Anti-infection

Storage: 4°C, sealed storage, away from moisture
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

H_2O : 100 mg/mL (225.73 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.2573 mL	11.2867 mL	22.5734 mL
	5 mM	0.4515 mL	2.2573 mL	4.5147 mL
	10 mM	0.2257 mL	1.1287 mL	2.2573 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Lincomycin Hydrochloride(U10149A) is an antibiotic produced by Streptomyces lincolnensis var. lincolnensis.Target: AntibacterialLincomycin hydrochloride is a systemic antibiotic, which is active against most common gram positive bacteria. It has proved to be excellent for infectious diseases like acne, anthrax, pneumonia, and also for the treatment of furunculosis, carbuncles, impetigo, burns and wounds, carrying to gram positive bacteria. Lincomycin hydrochloride inhibits cell growth and microbial protein synthesis, by interacting strongly and specifically with the 50S ribosomal subunit, at mutually related sites [1-3].

CUSTOMER VALIDATION

- Chemosphere. 2019 Jun;225:378-387.
- Microb Biotechnol. 2021 Mar 15.

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REFERENCES

[1]. Griaznova, N.S., et al., [Effect of lincomycin and other protein synthesis inhibitors on the metabolism of Actinomyces roseolus, a producer of lincomycin]. Antibiotiki, 1980. 25(4): p. 250-6.

[2]. Hummel, H., W. Piepersberg, and A. Bock, Analysis of lincomycin resistance mutations in Escherichia coli. Mol Gen Genet, 1979. 169(3): p. 345-7.

[3]. Champney, W.S. and C.L. Tober, Specific inhibition of 50S ribosomal subunit formation in Staphylococcus aureus cells by 16-membered macrolide, lincosamide, and streptogramin B antibiotics. Curr Microbiol, 2000. 41(2): p. 126-35.

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