

Product Name: Clindamycin Hydrochloride

Catalog No.: 4822

Batch No.: 1

CAS Number: 21462-39-5

IUPAC Name: Methyl-7-chloro-6,7,8-trideoxy-6-[[[(2*S*,4*R*)-1-methyl-4-propyl-2-pyrrolidinyl]carbonyl]amino]-1-thio-L-*threo*- α -D-*galacto*-octopyranoside hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₃₃ClN₂O₅S.HCl.1¼H₂O

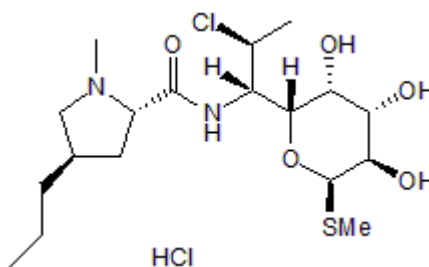
Batch Molecular Weight: 483.96

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen	Chlorine
Theoretical	44.67	7.6	5.79	14.65
Found	44.51	7.7	5.59	14.78

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Description:

Lincosamide antibiotic. Inhibits protein synthesis by binding to the 50S ribosomal subunit and preventing early peptide chain elongation in bacteria.

Physical and Chemical Properties:

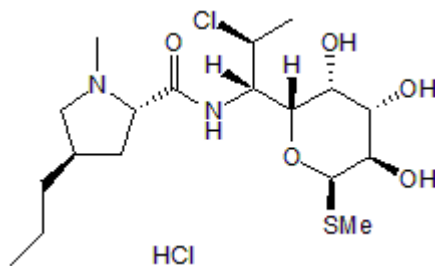
Batch Molecular Formula: C₁₈H₃₃ClN₂O₅S.HCl.1¼H₂O

Batch Molecular Weight: 483.96

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Dhawan and Thadepalli (1982) Clindamycin: a review of fifteen years of experience. *Rev.Infect.Dis.* **4** 1133. PMID: 6818656.

Champney and Tober (2000) Specific inhibition of 50S ribosomal subunit formation in *Staphylococcus aureus* cells by 16-membered macrolide, lincosamide, and streptogramin B antibiotics. *Curr.Microbiol.* **41** 126. PMID: 10856379.

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