



LKT Laboratories, Inc.

Clindamycin Palmitate Hydrochloride

Phone: 888-558-5227
651-644-8424
Fax: 888-558-7329
Email: getinfo@lktlabs.com
Web: lktlabs.com

Product Information

Product ID C4534

CAS No. 25507-04-4

Chemical Name (2S-trans)-Methyl 7-chloro-6,7,8-trideoxy-6-[[[(1-methyl-4-propyl-2-pyrrolidinyl)-carbonyl]amino]-1-thio-L-threo- α -D-galactooctopyranoside palmitate hydrochloride

Synonym

Formula $C_{34}H_{63}ClN_2O_6S \cdot HCl$

Formula Wt. 699.85

Melting Point 141-143°C

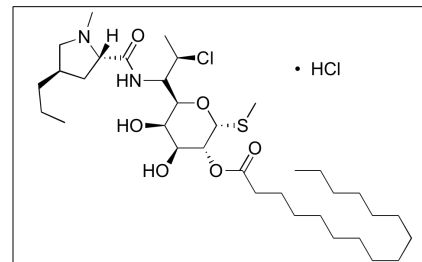
Purity $\geq 98\%$

Solubility Soluble in water, ethanol
(330 mg/mL).

Store Temp Ambient

Ship Temp Ambient

Description Clindamycin is a lincosamide antibiotic that exhibits antibacterial, anti-protozoan, anti-parasitic, and antimalarial activities. Clindamycin displays efficacy against anaerobic gram negative bacteria, *Streptococcus*, and *Staphylococcus* (particularly MRSA). Clindamycin binds 23S rRNA of the ribosomal 50S subunit, preventing translocation and protein synthesis. When co-administered with other anti-parasitic compounds, clindamycin is also occasionally used to treat *Plasmodium* infection.



Bulk quantities available upon request

Product ID	Size
C4534	10 mg
C4534	50 mg
C4534	100 mg

References Takem EN, D'Alessandro U. Malaria in pregnancy. *Mediterr J Hematol Infect Dis*. 2013;5(1):e2013010. PMID: 23350023.

Sireesha P, Setty CR. Detection of various types of resistance patterns and their correlation with minimal inhibitory concentrations against clindamycin among methicillin-resistant *Staphylococcus aureus* isolates. *Indian J Med Microbiol*. 2012 Apr-Jun;30(2):165-9. PMID: 22664431.

Wilson DN. On the specificity of antibiotics targeting the large ribosomal subunit. *Ann N Y Acad Sci*. 2011 Dec;1241:1-16. PMID: 22191523.

Schlünzen F, Zarivach R, Harms J, et al. Structural basis for the interaction of antibiotics with the peptidyl transferase centre in eubacteria. *Nature*. 2001 Oct 25;413(6858):814-21. PMID: 11677599.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.