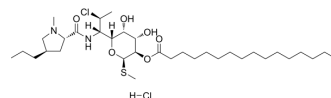


Clindamycin palmitate hydrochloride

Cat. No.:	HY-B1454
CAS No.:	25507-04-4
Molecular Formula:	C ₃₄ H ₆₄ Cl ₂ N ₂ O ₆ S
Molecular Weight:	699.85
Target:	Bacterial; Antibiotic
Pathway:	Anti-infection
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (178.61 mM; Need ultrasonic)
H₂O : 50 mg/mL (71.44 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.4289 mL	7.1444 mL	14.2888 mL
	5 mM	0.2858 mL	1.4289 mL	2.8578 mL
	10 mM	0.1429 mL	0.7144 mL	1.4289 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (2.97 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Clindamycin palmitate hydrochloride is a hydrochloride salt of the ester of clindamycin and palmitic acid and it is an antibacterial agent. Clindamycin palmitate hydrochloride is inactive in vitro, rapid in vivo hydrolysis converts this compound to the antibacterially active clindamycin^[1].

REFERENCES

[1]. Bharathi Ch, et al. Identification, isolation and characterization of impurities of clindamycin palmitate hydrochloride. J Pharm Biomed Anal. 2008 Dec 1;48(4):1211-8.

Caution: Product has not been fully validated for medical applications. For research use only.

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