产品名称：克林沙星
产品别名：**Clinafloxacin**

生物活性：

Description

Clinafloxacin(PD-127391) is a fluoroquinolone antibiotic. Target: Antibacterial Clinafloxacin is a broad-spectrum antibiotic of the quinolone carboxylic acid category currently in development for intravenous and oral therapy of serious infections [1]. Clinafloxacin is a novel fluoroquinolone with potent broad-spectrum in vitro activity against gram-positive, gram-negative, and anaerobic pathogens. Clinafloxacin is highly active against S. pneumoniae 7785 (MIC, 0.125 μg/mL), and neither gyrA nor parC quinolone resistance mutations alone have much effect on this activity [2]. Clinafloxacin is identified as the most active fluoroquinolone against S. pneumoniae when compared with ofloxacin, levofloxacin, sparfloxacin, grepafloxacin, and trovafloxacin and is currently being evaluated as an antipneumococcal agent [3].

Solvent&Solubility

In Vitro:

DMSO : 2 mg/mL (**5.47 mM;** ultrasonic and warming and heat to 80°C)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.7338 mL	13.6690 mL	27.3381 mL
5 mM	0.5468 mL	2.7338 mL	5.4676 mL
10 mM	---	---	---

*请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液；一旦配成溶液，请分装保存，避免反复冻融造成的产品失效。

储备液的保存方式和期限：-80°C, 6 months; -20°C, 1 month。-80°C 储存时，请在 6 个月内使用，-20°C 储存时，请在 1 个月内使用。

References

[1]. Humphrey, G.H., et al., Pharmacokinetics of clinafloxacin enantiomers in humans. J Clin Pharmacol, 1999. 39(11): p. 1143-50.

[2]. Pan, X.S. and L.M. Fisher, DNA gyrase and topoisomerase IV are dual targets of clinafloxacin action in Streptococcus pneumoniae. Antimicrob Agents Chemother, 1998. 42(11): p. 2810-6.

[3]. Jorgensen, J.H., et al., Activities of clinafloxacin, gatifloxacin, gemifloxacin, and trovafloxacin against recent clinical isolates of levofloxacin-resistant Streptococcus pneumoniae. Antimicrob Agents Chemother, 2000. 44(11): p. 2962-8.