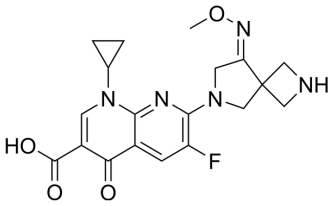
Zabofloxacin

Cat. No.:	HY-106410
CAS No.:	219680-11-2
Molecular Formula:	$C_{19}H_{20}FN_5O_4$
Molecular Weight:	401.39
Target:	Bacterial; Topoisomerase; Antibiotic
Pathway:	Anti-infection; Cell Cycle/DNA Damage
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



BIOLOGICAL ACTIVITY

Description	Zabofloxacin (DW-224a Free base) is a potent and seletive inhibitor of the bacterial type II and IV topoisomerases. Zabofloxacin has excellent activity against gram-positive pathogens including Steptococcus aureus, Streptococcus pyogenes and S.pneumonia. Zabofloxacin is a novel fluoronaphthyridone quinolone that is considered as an alternative antibiotic for treatment of quinolone-susceptible (QSSP) and quinolone-resistant gonorrhea (QRSP)[1].		
IC_{50} & Target	Topoisomerase I	Topoisomerase II	Quinolone
In Vitro	Zabofloxacin shows a highly potent in vitro activity against clinical isolates of penicillin-sensitive S. pneumoniae (minimum inhibitory concentration, MIC_{90}: 0.03 mg/L) and penicillin-resistant S. pneumoniae (MIC_{90}: 0.03 mg/L). Against quinolone-resistant S. pneumoniae, zabofloxacin (MIC_{90}: 1 mg/L) is more active than ciprofloxacin, sparfloxacin, and moxifloxacin[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.		

REFERENCES

[1]. Park HS, et al. Antimicrobial Activity of Zabofloxacin against Clinically Isolated Streptococcus pneumoniae. Molecules. 2016 Nov 17;21(11). pii: E1562.

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