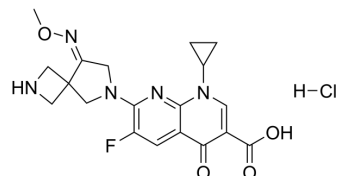


Zabofloxacin hydrochloride

Cat. No.:	HY-106410A
CAS No.:	623574-00-5
Molecular Formula:	C ₁₉ H ₂₁ ClFN ₅ O ₄
Molecular Weight:	437.85
Target:	Bacterial; Topoisomerase; Antibiotic
Pathway:	Anti-infection; Cell Cycle/DNA Damage
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 6.67 mg/mL (15.23 mM); ultrasonic and warming and heat to 60°C

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.2839 mL	11.4194 mL	22.8389 mL
	5 mM	0.4568 mL	2.2839 mL	4.5678 mL
	10 mM	0.2284 mL	1.1419 mL	2.2839 mL

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

BIOLOGICAL ACTIVITY

Description

Zabofloxacin hydrochloride (DW-224a) is a potent and selective inhibitor of the bacterial type II and IV topoisomerases. Zabofloxacin hydrochloride has excellent activity against gram-positive pathogens including *Staphylococcus aureus*, *Streptococcus pyogenes* and *S. pneumoniae*. Zabofloxacin hydrochloride is a novel fluoronaphthyridone quinolone that is considered as an alternative antibiotic for treatment of quinolone-susceptible (QSSP) and quinolone-resistant gonorrhea (QRSP)^[1].

IC₅₀ & Target

Topoisomerase I	Quinolone	Topoisomerase II	Quinolone
-----------------	-----------	------------------	-----------

In Vitro

Zabofloxacin shows a highly potent in vitro activity against clinical isolates of penicillin-sensitive *S. pneumoniae* (minimum inhibitory concentration, MIC₉₀: 0.03 mg/L) and penicillin-resistant *S. pneumoniae* (MIC₉₀: 0.03 mg/L). Against quinolone-resistant *S. pneumoniae*, zabofloxacin (MIC₉₀: 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

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA