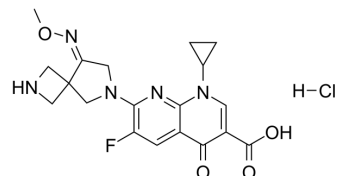


## Zabofloxacin hydrochloride

<b>Cat. No.:</b>	HY-106410A
<b>CAS No.:</b>	623574-00-5
<b>Molecular Formula:</b>	C <sub>19</sub> H <sub>21</sub> ClFN <sub>5</sub> O <sub>4</sub>
<b>Molecular Weight:</b>	437.85
<b>Target:</b>	Bacterial; Topoisomerase
<b>Pathway:</b>	Anti-infection; Cell Cycle/DNA Damage
<b>Storage:</b>	-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

Preparing Stock Solutions	Solvent		1 mg	5 mg	10 mg
	Concentration	Mass			
	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)<sup>[1]</sup>.

#### IC<sub>50</sub> & Target

Topoisomerase I

Topoisomerase II

#### In Vitro

Zabofloxacin shows a highly potent in vitro activity against clinical isolates of penicillin-sensitive *S. pneumoniae* (minimum inhibitory concentration, MIC<sub>90</sub>: 0.03 mg/L) and penicillin-resistant *S. pneumoniae* (MIC<sub>90</sub>: 0.03 mg/L). Against quinolone-resistant *S. pneumoniae*, zabofloxacin (MIC<sub>90</sub>: 1 mg/L) is more active than ciprofloxacin, sparfloxacin, and moxifloxacin<sup>[1]</sup>. 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.**

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