Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

Zoliflodacin

Catalog No: tcsc0016917

Available Sizes

Size: 5mg

Size: 10mg

Size: 25mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
1620458-09-4

Formula:
$C_{22}H_{22}FN_5O_7$

Pathway:
Anti-infection;Cell Cycle/DNA Damage

Target:
Bacterial;DNA/RNA Synthesis

Purity / Grade:
>98%

Solubility:
DMSO : 140 mg/mL (287.21 mM; Need ultrasonic)

Alternative Names:
ETX0914;AZD0914

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Observed Molecular Weight:
487.44

Product Description

Zoliflodacin (ETX0914;AZD0914) is a novel spiropyrimidinetrione **bacterial DNA gyrase/topoisomerase** inhibitor. Zoliflodacin has potent *in vitro* antibacterial activity against Gram-positive and Gram-negative organisms, including *S. aureus* with the **MIC_{90}** of 0.25 μg/mL.

IC50 & Target: MIC90: 0.25 μg/mL (S. aureus)[1]

In Vitro: Zoliflodacin has antibacterial activity against key Gram-positive (*Staphylococcus aureus, Staphylococcus epidermidis, Streptococcus pneumoniae, Streptococcus pyogenes, and Streptococcus agalactiae*), fastidious Gram-negative (*Haemophilus influenzae, Neisseria gonorrhoeae*), atypical (*Legionella pneumophila*), and anaerobic (*Clostridium difficile*) bacterial species, including isolates with known resistance to fluoroquinolones. The antibacterial activity of Zoliflodacin is shown to be via inhibition of DNA biosynthesis and accumulation of double-strand cleavages; this mechanism of action differs from those of other marketed antibacterial compounds, including fluoroquinolones. Zoliflodacin stabilizes and arrests the cleaved covalent complex of gyrase with double-strand broken DNA under permissive conditions and thus blocks religation of the double-strand cleaved DNA to form fused circular DNA[1].