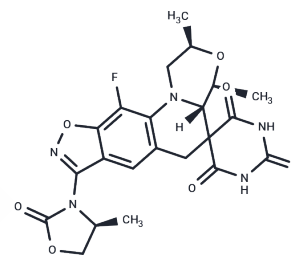


Zoliflodacin

Chemical Properties

CAS No. :	1620458-09-4
Formula:	C ₂₂ H ₂₂ FN ₅ O ₇
Molecular Weight:	487.44
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Zoliflodacin (ETX0914) (ETX0914, AZD0914) is a new bacterial DNA gyrase/topoisomerase inhibitor. Zoliflodacin has potent in vitro antibacterial activity against Gram-positive and Gram-negative organisms, including <i>S. aureus</i> (MIC ₉₀ : 0.25 µg/mL).
Targets(IC50)	Antibacterial, Antibiotic, DNA gyrase, DNA/RNA Synthesis, Topoisomerase
In vitro	Zoliflodacin has antibacterial activity against key Gram-positive, fastidious Gram-negative (<i>Haemophilus influenzae</i> , <i>Neisseria gonorrhoeae</i>), atypical (<i>Legionella pneumophila</i>), and anaerobic (<i>Clostridium difficile</i>) bacterial species, including isolates with known resistance to 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.

Solubility Information

Solubility	DMSO: 135 mg/mL (276.96 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (8.21 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0515 mL	10.2577 mL	20.5153 mL
5 mM	0.4103 mL	2.0515 mL	4.1031 mL
10 mM	0.2052 mL	1.0258 mL	2.0515 mL
50 mM	0.041 mL	0.2052 mL	0.4103 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Huband MD, et al. In vitro antibacterial activity of AZD0914, a new spiropyrimidinetrione DNA gyrase/topoisomerase inhibitor with potent activity against Gram-positive, fastidious Gram-Negative, and atypical bacteria. *Antimicrob Agents Chemother.* 2015 Jan;59(1):467-74.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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