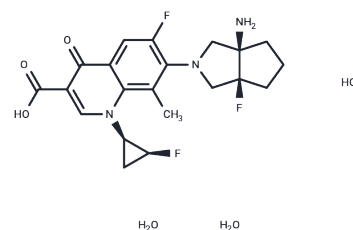


DS-8587

Chemical Properties

CAS No. : 1356918-39-2
Formula: C₂₁H₂₇ClF₃N₃O₅
Molecular Weight: 493.9
Appearance: no data available
Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	DS-8587 is a DNA topoisomerase inhibitor. DS-8587 exhibits potent antibacterial activity against quinolone-resistant <i>A. baumannii</i> isolates that harbor mutations in quinolone resistance-determining regions. DS-8587 significantly reduces the number of viable bacteria in a murine model of <i>F. necrophorum</i> -induced liver abscess. In the presence of the efflux pump inhibitor 1-(1-naphthylmethyl)-piperazine, no significant changes were observed in the MIC for DS-8587.
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0247 mL	10.1235 mL	20.247 mL
5 mM	0.4049 mL	2.0247 mL	4.0494 mL
10 mM	0.2025 mL	1.0124 mL	2.0247 mL
50 mM	0.0405 mL	0.2025 mL	0.4049 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.

Reference

Nagaoka K, Yanagihara K, Morinaga Y, Kurosaka Y, Hoshino K, Kohno S. In vivo antianaerobe activity of DS-8587, a new fluoroquinolone, against *Fusobacterium necrophorum* in a mouse model. *J Infect Chemother.* 2017 Mar;23

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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