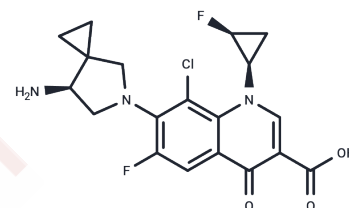


Sitafloracin

Chemical Properties

CAS No. :	127254-12-0
Formula:	C ₁₉ H ₁₈ ClF ₂ N ₃ O ₃
Molecular Weight:	409.81
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Sitafloracin (Sitafloracin anhydrous) is an orally active fluoroquinolone antibiotic with broad-spectrum antimicrobial activity. Sitafloracin has been used in the study of respiratory tract infections and urinary tract infections.
Targets(IC50)	Antibacterial, Antibiotic
In vitro	Sitafloracin (DU6859a) demonstrates potent antibacterial activity, with MIC values of 0.03 mg/L for quinolone-susceptible strains of Streptococcus pneumoniae EG 00093 and EG 00218, respectively [1].
In vivo	In BALB/c female mice, Sitafloracin (12.5, 25, 50, and 100 mg/kg; oral gavage; once daily for 4 weeks) inhibits the growth of Mycobacterium ulcerans and the cells of M. ulcerans[2].

Solubility Information

Solubility	DMSO: 2.41 mg/mL (5.88 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 0.24 mg/mL (0.59 mM), Solution. <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	2.4402 mL	12.2008 mL	24.4016 mL
5 mM	0.488 mL	2.4402 mL	4.8803 mL
10 mM	0.244 mL	1.2201 mL	2.4402 mL
50 mM	0.0488 mL	0.244 mL	0.488 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

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