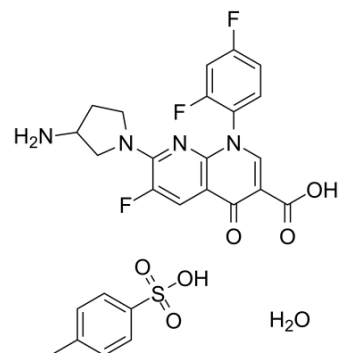


Tosufloxacin tosylate hydrate

Cat. No.:	HY-B1802A		
CAS No.:	1400591-39-0		
Molecular Formula:	C ₂₆ H ₂₅ F ₃ N ₄ O ₇ S		
Molecular Weight:	594.56		
Target:	Bacterial; Antibiotic		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 12.5 mg/mL (21.02 mM; Need ultrasonic)
 H₂O : < 0.1 mg/mL (insoluble)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.6819 mL	8.4096 mL	16.8192 mL
	5 mM	0.3364 mL	1.6819 mL	3.3638 mL
	10 mM	0.1682 mL	0.8410 mL	1.6819 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
 Solubility: 1.25 mg/mL (2.10 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
 Solubility: ≥ 1.25 mg/mL (2.10 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 1.25 mg/mL (2.10 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Tosufloxacin (tosylate hydrate) is a fluoroquinolone antibacterial agent. Tosufloxacin (tosylate hydrate) is effective against Gram-positive and Gram-negative aerobic bacteria, anaerobic bacteria and Chlamydia trachomatis. Tosufloxacin (tosylate hydrate) is also a bacterial Topo (DNA gyrase, topoisomerase) inhibitor.

CUSTOMER VALIDATION

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- PLoS Negl Trop Dis. 2019 Aug 20;13(8):e0007681.

See more customer validations on www.MedChemExpress.com

REFERENCES

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- [2]. Deng FY et al. [Mn²⁺-cTMAB-sensitized fluorescent microscopic determination of tosufloxacin tosylate based on a self-ordered ring. *Guang Pu Xue Yu Guang Pu Fen Xi.* 2014 Feb;34(2):445-9.
- [3]. Chu DT et al. Synthesis and biological properties of A-71497: a prodrug of tosufloxacin. *Drugs Exp Clin Res.* 1990, 16(9):435-43.
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Caution: Product has not been fully validated for medical applications. For research use only.

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