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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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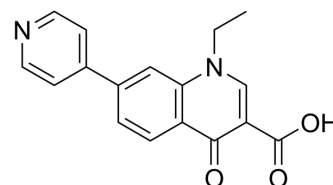
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Rosoxacin

Cat. No.:	HY-A0208
CAS No.:	40034-42-2
Molecular Formula:	C ₁₇ H ₁₄ N ₂ O ₃
Molecular Weight:	294.3
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 2 years -20°C 1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 20.83 mg/mL (70.78 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		3.3979 mL	16.9895 mL	33.9789 mL
		5 mM		0.6796 mL	3.3979 mL	6.7958 mL
		10 mM		0.3398 mL	1.6989 mL	3.3979 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (7.07 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (7.07 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Rosoxacin (Acrosoxacin) is an orally active and broad-spectrum antibacterial quinolone antibiotic. Rosoxacin inhibits Gram-negative bacteria, including <i>N. gonorrhoeae</i> (MIC range=0.03-0.125 µg/mL). Rosoxacin can be used in studies of urinary tract infections and certain sexually transmitted diseases ^[1] .
In Vitro	Rosoxacin (0.03-8 µg/mL; 24 h) shows good susceptibilities to 32 strains of <i>N. gonorrhoeae</i>, with MIC range of 0.03-0.125 µg/mL^[1]. Rosoxacin (0.03-8 µg/mL; 48 h) shows antibacterial activity to <i>C. trachomatis</i> (11 strains), with MICs are 5 µg/mL^[1]. Rosoxacin (0.03-8 µg/mL; 6 days) shows antibacterial activity to <i>U. urealyticum</i> (7 strains), with MIC range of 2-8 µg/mL^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay^[1]

Cell Line:	N. gonorrhoeae (32 strains)
Concentration:	0.03-8 µg/mL
Incubation Time:	24 h
Result:	Exhibited good activity of anti-N. gonorrhoeae, with MICs for 50% (among 32 strains) strains of 0.03 µg/mL, and 0.06 µg/mL for 90%.

Cell Viability Assay^[1]

Cell Line:	C. trachomatis (11 strains)
Concentration:	0.03-8 µg/mL
Incubation Time:	48 h
Result:	Inhibited 11 strains of C. trachomatis with MICs were 5 µg/mL.

Cell Viability Assay^[1]

Cell Line:	U. urealyticum (7 strains)
Concentration:	0.03-8 µg/mL
Incubation Time:	6 days
Result:	Inhibited 7 strains of U. urealyticum with MIC range of 2-8 µg/mL.

CUSTOMER VALIDATION

- Microb Pathog. 2023 Apr 22;106122.

See more customer validations on www.MedChemExpress.com

Caution: Product has not been fully validated for medical applications. For research use only.

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