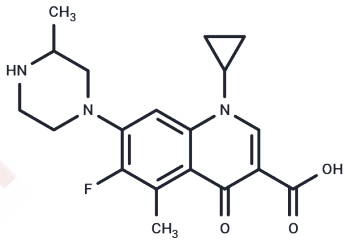
Data Sheet (Cat.No.T38586)

TargetMol

Grepafloxacin

Chemical Properties



CAS No. : 119914-60-2

Formula: C19H22FN3O3

Molecular Weight: 359.39

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	Grepafloxacin (OPC-17116) is a fluoroquinolone antibiotic that is administered orally. It possesses strong efficacy against community-acquired respiratory pathogens, notably Streptococcus pneumonia. Grepafloxacin exhibits excellent tissue penetration and demonstrates a promising pharmacodynamic profile.
Targets(IC50)	Others,Antibacterial,Antibiotic
In vitro	Grepafloxacin is a once-daily fluoroquinolone[2]. Grepafloxacin exhibits potent in vitro antibacterial activity against Gram-positive bacteria such as Streptococcus pneumoniae and high in vivo efficacy on the experimental systemic infections caused by the Gram-positive and -negative bacteria tested[4].
In vivo	Grepafloxacin (OPC-17116) (200 mg/kg; p.o.; Balb/c mice) displays good safety profile in terms of phototoxicity[2]. Grepafloxacin (p.o.; 25, 50, 100, and 200 mg/kg; 5 days/week for 4 weeks; Female C57BL6/J-Lyst bg-J/ mice/beige mice) has modest activities in both intranasal (IN) infection and intravenous (IV) Mycobacterium avium infection models[3].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7825 mL	13.9125 mL	27.8249 mL
5 mM	0.5565 mL	2.7825 mL	5.565 mL
10 mM	0.2782 mL	1.3912 mL	2.7825 mL
50 mM	0.0556 mL	0.2782 mL	0.5565 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

Efthymiopoulos C. Pharmacokinetics of grepafloxacin. J Antimicrob Chemother. 1997;40 Suppl A:35-43.
Owen K. Comparative grepafloxacin phototoxicity in mouse skin. J Antimicrob Chemother. 1998;42(2):261-264.
Cynamon MH, et al. The activity of grepafloxacin in two murine models of Mycobacterium avium infection. J Infect Chemother. 2004;10(3):185-188.
Miyamoto H, et al. Synthesis and biological properties of substituted 1,4-dihydro-5-methyl-4-oxo-3-quinolinecarboxylic acids. Bioorg Med Chem. 1995;3(12):1699-1706.

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