
Product Data Sheet

Product Name: Grepafloxacin hydrochloride

Cat. No.: GC65875

Chemical Properties

Cas. No. 161967-81-3

Formula $C_{19}H_{23}ClFN_3O_3$

M.Wt 395.86

Solubility H₂O : ≥ 13.33 mg/mL (33.67 mM)

Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

Grepafloxacin (OPC-17116) hydrochloride is an oral actively fluoroquinolone **antibiotic** with potent activity against community-acquired respiratory pathogens including *Streptococcus pneumoniae*. Grepafloxacin hydrochloride has high tissue penetration and a promising pharmacodynamic profile^{[1][2][3][4]}.

Grepafloxacin (OPC-17116; 0-1 mg/L; 14-21 d) hydrochloride has antibiotic activity with a MIC value of ≤ 0.006 mg/L for *E. coli* strain^[1].

Grepafloxacin (0-1 mg/L; 3 h) hydrochloride has antimicrobial activity against mycobacteria in macrophages with a MIC value of 0.5 mg/L for *M. avium*^[1].

Grepafloxacin hydrochloride 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].

Grepafloxacin (OPC-17116; 200 mg/kg; p.o.; Balb/c mice) hydrochloride displays good safety profile in terms of phototoxicity^[2].

Grepafloxacin (25-200 mg/kg; p.o.; 5 days/week for 4 weeks; female C57BL6/J-Lyst bg-/-)

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

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mice/beige mice) hydrochloride has modest activities in both intranasal (IN) infection and intravenous (IV) *Mycobacterium avium* infection models^[3].

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