

# Lomefloxacin (hydrochloride)

Catalog No: tcsc2566



## Available Sizes

**Size:** 100mg

**Size:** 500mg



## Specifications

**CAS No:**

98079-52-8

**Formula:**

$C_{17}H_{20}ClF_2N_3O_3$

**Pathway:**

Anti-infection

**Target:**

Bacterial

**Purity / Grade:**

>98%

**Solubility:**

H<sub>2</sub>O : 10 mg/mL (25.79 mM; Need ultrasonic and warming)

**Observed Molecular Weight:**

387.81

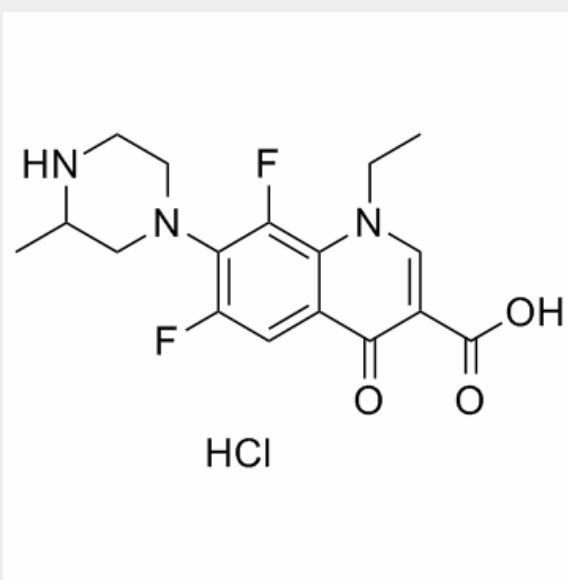
## Product Description

Lomefloxacin HCl is a fluoroquinolone antibiotic.

Target: Antibacterial

Lomefloxacin is a bactericidal fluoroquinolone agent with activity against a wide range of gram-negative and gram-positive organisms. The bactericidal action of lomefloxacin results from interference with the activity of the bacterial enzymes DNA gyrase

and topoisomerase IV, which are needed for the transcription and replication of bacterial DNA. DNA gyrase appears to be the primary quinolone target for gram-negative bacteria. Topoisomerase IV appears to be the preferential target in gram-positive organisms. Interference with these two topoisomerases results in strand breakage of the bacterial chromosome, supercoiling, and resealing. As a result DNA replication and transcription is inhibited [1].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!