

# Ofloxacin

Catalog No: tcsc1891



## Available Sizes

Size: 1g

Size: 5g



## Specifications

**CAS No:**

82419-36-1

**Formula:**

$C_{18}H_{20}FN_3O_4$

**Pathway:**

Anti-infection

**Target:**

Bacterial

**Purity / Grade:**

>98%

**Solubility:**

DMSO :  $\geq 4$  mg/mL (11.07 mM)

**Alternative Names:**

Hoe-280

**Observed Molecular Weight:**

361.37

## Product Description

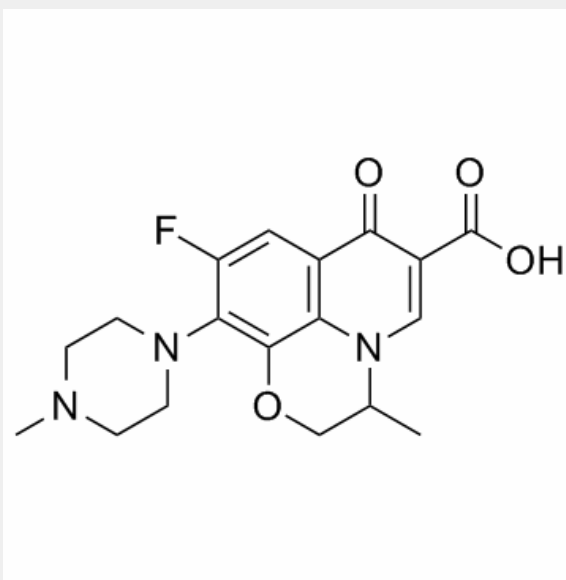
Ofloxacin is a fluoroquinolone whose primary mechanism of action is inhibition of bacterial DNA gyrase.

Target: DNA gyrase

Ofloxacin is a fluoroquinolone whose primary mechanism of action is inhibition of bacterial DNA gyrase. In vitro it has a broad spectrum of activity against aerobic Gram-negative and Gram-positive bacteria, although it is poorly active against anaerobes [1]. Ofloxacin, like other 4-quinolones, is unusual among front line drugs available to treat bacterial infections since it affects bacterial DNA synthesis, rather than cell wall or protein synthesis [2].

Ofloxacin (20 mg/kg), norfloxacin (40 mg/kg), pefloxacin mesylate dihydrate (40 mg/kg) and ciprofloxacin (50 mg/kg) were administered by gavage twice daily for three consecutive weeks. 6 weeks after treatment, the test animals were euthanised and Achilles tendon specimens were collected. A computer monitored tensile testing machine was utilised for biomechanical testing. The mean elastic modulus of the control group was significantly higher than that of the norfloxacin and pefloxacin groups (p < 0.05).  
Clinical indications: Bacterial infection; Bacterial respiratory tract infection; Bacterial urinary tract infection

Toxicity: tendinopathy; hepatotoxicity; dysglycemia



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