Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

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 : ≥ 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.

Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

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
Clinical indications: Bacterial infection; Bacterial respiratory tract infection; Bacterial urinary tract infection

Toxicity: tendinopathy; hepatotoxicity; dysglycemia