

Ciprofloxacin

Catalog No: tcsc2410



Available Sizes

Size: 1g

Size: 5g



Specifications

CAS No:

85721-33-1

Formula:

$C_{17}H_{18}FN_3O_3$

Pathway:

Anti-infection

Target:

Bacterial

Purity / Grade:

>98%

Solubility:

DMSO :

Alternative Names:

Bay-09867

Observed Molecular Weight:

331.34

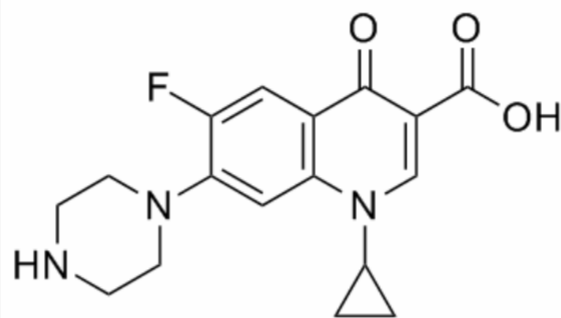
Product Description

Ciprofloxacin is a fluoroquinolone antibiotic, exhibiting potent **antibacterial** activity.

In Vitro:

Ciprofloxacin is a fluoroquinolone antibiotic, exhibiting potent antibacterial activity^[1]. Ciprofloxacin (CIP) shows potent activity against *Y. pestis* with MIC₉₀ of 0.03 µg/mL^[2].

In Vivo: Ciprofloxacin (1 mg/L) induces glutathione-S-transferase (GST) activity, in contrast with inhibited GST and Catalase (CAT) of larvae exposed to enrofloxacin. Ciprofloxacin (≥10 µg/L) and enrofloxacin are ecotoxic for development, growth, detoxifying, and oxidative stress enzymes in anuran amphibian larvae^[1]. In a murine model of pneumonic plague, Ciprofloxacin (30 mg/kg, i.p.) results in a drug exposure which is similar to the drug exposure observed in human following a 500 mg dose of oral Ciprofloxacin. Intraperitoneal Ciprofloxacin reduces the lung bacterial load compare to controls treated with intraperitoneal PBS^[3].



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