

Nalidixic acid

Catalog No: tcsc2493



Available Sizes

Size: 5g

Size: 10g



Specifications

CAS No:

389-08-2

Formula:

$C_{12}H_{12}N_2O_3$

Pathway:

Anti-infection

Target:

Bacterial

Purity / Grade:

>98%

Solubility:

DMSO : 6 mg/mL (25.84 mM; Need ultrasonic)

Observed Molecular Weight:

232.24

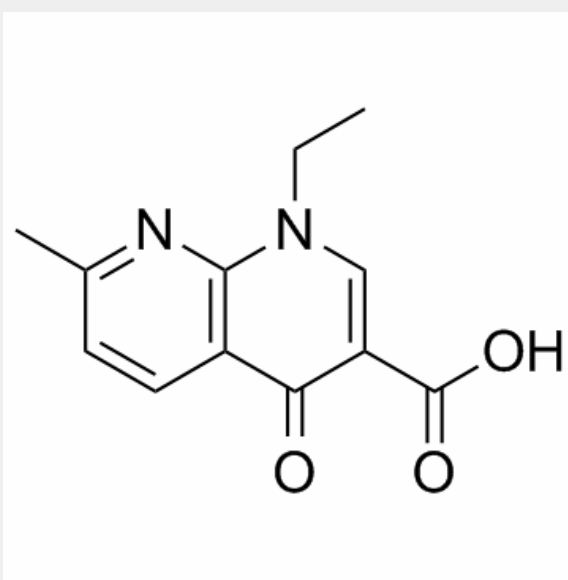
Product Description

Nalidixic acid is a synthetic 1,8-naphthyridine antimicrobial agent with a limited bacteriocidal spectrum.

Target: Antibacterial

Nalidixic acid is the first of the synthetic quinolone antibiotics. Nalidixic acid is effective against both gram-positive and gram-negative bacteria. In lower concentrations, it acts in a bacteriostatic manner; that is, it inhibits growth and reproduction. In higher

concentrations, it is bactericidal, meaning that it kills bacteria instead of merely inhibiting their growth. Nalidixic selectively and reversibly blocks DNA replication in susceptible bacteria. Nalidixic acid and related antibiotics inhibit a subunit of DNA gyrase and topoisomerase IV and induce formation of cleavage complexes. It also inhibits the nicking-closing activity on the subunit of DNA gyrase that releases the positive binding stress on the supercoiled DNA. From Wikipedia.



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