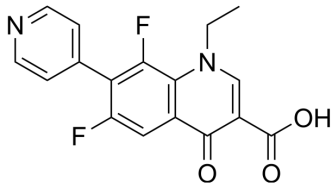
CP-67015

Cat. No.:	HY-109855
CAS No.:	100325-51-7
Molecular Formula:	$C_{17}H_{12}F_2N_2O_3$
Molecular Weight:	330.29
Target:	Topoisomerase; Antibiotic; Bacterial
Pathway:	Cell Cycle/DNA Damage; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	CP-67015, a quinolone antibiotic, is a potent topoisomerase II inhibitor. CP-67015 is a positive direct-acting mutagen in mammalian cells with both gene and chromosomal level effects[1].	
IC_{50} & Target	Quinolone	Topoisomerase II
In Vitro	CP-67015 (10-100 μg/mL; 12-36 h) produces a drastic increase in chromosome damage in human lymphocytes and in CHO cells[1]. CP-67015 inhibits supercoiling activity of prokaryotic DNA gyrase, with 100% inhibition at the concentration of 4.0 μg/mL[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
In Vivo	CP-67015 (a single dose 1000 mg/kg or 500 mg/kg/day for 5 days; i.p.) induces chromosome damage in male CD-1 mice in mouse bone marrow cells[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

REFERENCES

[1]. Holden HE, et, al. Genetic profile of a nalidixic acid analog: a model for the mechanism of sister chromatid exchange induction. Environ Mol Mutagen. 1989;13(3):238-52.

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