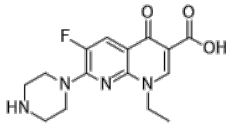
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Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	Enoxacin
Cat. No.	:	PC-23990
CAS No.	:	74011-58-8
Molecular Formula	:	$C_{15}H_{17}FN_4O_3$
Molecular Weight	:	320.32
Target	:	Bacterial
Solubility	:	10 mM in DMSO



Biological Activity

Enoxacin (Enoxacin sesquihydrate) is a fluoroquinolone **antibiotic**, interferes with DNA replication and inhibits bacterial DNA gyrase (IC50=126 μg/ml) and topoisomerase IV (IC50=26.5 μg/ml).
Enoxacin is a miRNA processing activator and enhances siRNA-mediated mRNA degradation and promotes the biogenesis of endogenous miRNAs.
Enoxacin shows potent activities against gram-positive and -negative bacteria.
Enoxacin is a cancer-specific growth inhibitor that acts by enhancing TAR RNA-binding protein 2 (TRBP)-mediated microRNA processing.

References

Ge Shan, et al. ***Nat Biotechnol***. 2008 Aug;26(8):933-40.

Sonia Melo, et al. ***Proc Natl Acad Sci U S A***. 2011 Mar 15;108(11):4394-9.

M Takei, et al. ***Antimicrob Agents Chemother***. 2001 Dec;45(12):3544-7.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com