

Data Sheet

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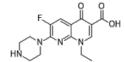
Product Name : Enoxacin hydrate
Cat. No. : PC-23989
CAS No. : 84294-96-2

 $\textbf{Molecular Formula:} \quad \mathsf{C}_{15}\mathsf{H}_{17}\mathsf{FN}_4\mathsf{O}_{3\cdot3}\mathsf{/}_2\mathsf{H}_2\mathsf{O}$

Molecular Weight : 347.34

Target : Bacterial

Solubility : 10 mM in DMSO



1.5 H₂O

Biological Activity

Enoxacin hydrate (Enoxacin sesquihydrate) is a fluoroquinolone antibiotic, interferes with DNA replication and inhibits bacterial DNA gyrase (IC50=126 μ g/ml) and topoisomerase IV (IC50=26.5 μ g/ml).

Enoxacin hydrate 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 hydrate 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!

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