

Product Datasheet

Ciprofloxacin (orb1307927)

Catalog Number	orb1307927
Category	Small Molecules
Description	Ciprofloxacin (Bay-09867) is a potent fluoroquinolone antibiotic that primarily inhibits bacterial DNA gyrase and topoisomerase IV. It is widely used in research for studying antibacterial mechanisms and efficacy in both in vitro susceptibility assays and in vivo infection models.
Target	Antibiotic,ROS,Reactive Oxygen Species,Antibacterial,Apoptosis,Topoisomerase,Mitochondrial Metabolism
Purity	98.77% (May vary between batches)
MW	331.34
Target Areas	Apoptosis Antibiotic Antibacterial Mitochondrial Metabolism Reactive Oxygen Species ROS Topoisomerase
Solubility (25°C)	H2O:Insoluble;DMSO:0.33 mg/mL (1 mM);0.1 M HCL:55 mg/mL (165.99 mM);0.1 M HCl:55 mg/mL (165.99 mM)
CAS Number	85721-33-1
Formula	C ₁₇ H ₁₈ FN ₃ O ₃
SMILES	OC(=O)C1=CN(C2CC2)C2=C(C=C(F)C(=C2)N2CCNCC2)C1=O
Storage	-20°C
Note	For research use only
Expiration Date	12 months from date of receipt.

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