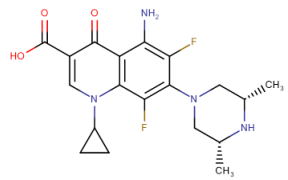


Product Name	: Sparfloxacin	
Synonyms	: AT-4140; CI-978; CP 103,826; PD 1315-1; PD 131501	
Cat No.	: M10405	
CAS Number	: 110871-86-8	
Molecular Formula	: C ₁₉ H ₂₂ F ₂ N ₄ O ₃	
Formula Weight	: 392.40	
Chemical Name	5-amino-1-cyclopropyl-7-((3S,5R)-3,5-dimethylpiperazin-1-yl)-6,8-difluoro-4-oxo-1,4-dihydroquinoline-3-carboxylic acid	
Description	Sparfloxacin is a fluoroquinolone antibiotic used in the treatment of bacterial infections. Sparfloxacin exerts its antibacterial activity by inhibiting DNA gyrase, a bacterial topoisomerase. DNA gyrase is an essential enzyme which controls DNA topology and assists in DNA replication, repair, deactivation, and transcription.	
Pathway	: Cell Cycle/DNA Damage	
Target	: DNA gyrase	
Receptor	: DNA gyrase; Topo II; Topo IV	
Solubility	: DMSO: 9 mg/mL (22.93 mM)	
SMILES	: <chem>O=C(C1=CN(C2CC2)C3=C(C(N)=C(F)C(N4C[C@H](C)N[C@H](C)C4)=C3F)C1=O)O</chem>	
Storage	: (-20°C)	
Stability	: ≥ 2 years	
Reference	:	

1.Schmitz FJ, et al. J Antimicrob ChemOthers. 1998 Apr;41(4):481-4.