

## Product Datasheet

### Levofloxacin hydrate (orb1308581)

<b>Catalog Number</b>	orb1308581
<b>Category</b>	Small Molecules
<b>Description</b>	Levofloxacin hydrate is the active L-isomer of ofloxacin, a third-generation fluorofluoroquinolone antibiotic. It exerts its broad-spectrum antibacterial effect by inhibiting bacterial DNA gyrase, thereby disrupting DNA replication. This compound is widely used in research applications for studying bacterial infections and antibiotic mechanisms in both in vitro and in vivo models.
<b>Target</b>	Topoisomerase,Virus Protease,DNA gyrase,Antibiotic,Antibacterial,DNA/RNA Synthesis
<b>Purity</b>	98.56% (May vary between batches)
<b>MW</b>	370.38
<b>Target Areas</b>	Antibacterial Antibiotic DNA/RNA Synthesis DNA gyrase Topoisomerase Virus Protease
<b>Solubility (25°C)</b>	Ethanol:10 mg/mL (27 mM);H2O:5 mg/mL (13.5 mM);DMSO:50 mg/mL (135 mM);Methanol:10 mM
<b>CAS Number</b>	138199-71-0
<b>Formula</b>	$C_{18}H_{20}FN_3O_4 \cdot 1/2H_2O$
<b>SMILES</b>	<chem>O.C[C@H]1COc2c(N3CCN(C)CC3)c(F)cc3c2n1cc(C(O)=O)c3=O.C[C@H]1COc2c(N3CCN(C)CC3)c(F)cc3c2n1cc(C(O)=O)c3=O</chem>
<b>Storage</b>	Powder: -20°C for 3 years   In solvent: -80°C for 1 year   Shipping with blue ice/Shipping at ambient temperature.
<b>Note</b>	For research use only

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**Expiration Date**

12 months from date of receipt.

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