

Product Name	: Levofloxacin hydrochloride
Synonyms	: —
Cat No.	: M22740
CAS Number	: 177325-13-2
Molecular Formula	: C ₁₈ H ₂₁ ClFN ₃ O ₄
Formula Weight	: 397.8
Chemical Name	: —
Description	: Levofloxacin is a broad-spectrum, third-generation fluoroquinolone antibiotic and optically active L-isomer of ofloxacin with antibacterial activity. Levofloxacin diffuses through the bacterial cell wall and acts by inhibiting DNA gyrase (bacterial topoisomerase II), an enzyme required for DNA replication, RNA transcription, and repair of bacterial DNA. Inhibition of DNA gyrase activity leads to blockage of bacterial cell growth.
Pathway	: Cell Cycle/DNA Damage
Target	: DNA gyrase
Receptor	: DNA gyrase; Topo II; Topo IV
Solubility	: —
SMILES	: Cl.C[C@H]1COc2c(N3CCN(C)CC3)c(F)cc3c2n1cc(C(=O)=O)c3=O
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

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