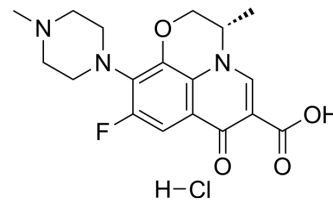


Levofloxacin hydrochloride

Cat. No.:	HY-B0330B
CAS No.:	177325-13-2
Molecular Formula:	C ₁₈ H ₂₁ ClFN ₃ O ₄
Molecular Weight:	397.83
Target:	Antibiotic; Bacterial; DNA/RNA Synthesis; Topoisomerase; Orthopoxvirus
Pathway:	Anti-infection; Cell Cycle/DNA Damage
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



BIOLOGICAL ACTIVITY

Description	Levofloxacin ((-)-Ofloxacin) hydrochloride is an orally active antibiotic and is active against both Gram-positive and Gram-negative bacteria. Levofloxacin hydrochloride inhibits the DNA gyrase and topoisomerase IV. Levofloxacin hydrochloride can be used for chronic periodontitis, airway inflammation and BK Viremia research. Levofloxacin hydrochloride shows anti-orthopoxvirus activity ^{[1][2][3][4][5]} .
IC₅₀ & Target	TOPO IV

CUSTOMER VALIDATION

- Nat Commun. 2022 Mar 2;13(1):1116.
- Emerg Microbes Infect. 2024 Dec;13(1):2321981.
- Clin Chem. 2019 Dec;65(12):1522-1531.
- ACS Infect Dis. 2024 Apr 12;10(4):1327-1338.
- Antimicrob Agents Chemother. 2021 Feb 17;65(3):e01921-20.

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REFERENCES

- [1]. Siva, R., et al., Effect of levofloxacin on neutrophilic airway inflammation in stable COPD: a randomized, double-blind, placebo-controlled trial. Int J Chron Obstruct Pulmon Dis, 2014. 9: p. 179-86.
- [2]. Pradeep, A.R., et al., Clinical and microbiological effects of levofloxacin in the treatment of chronic periodontitis: a randomized, placebo-controlled clinical trial. J Investig Clin Dent, 2014.
- [3]. Lee, B.T., et al., Efficacy of Levofloxacin in the Treatment of BK Viremia: A Multicenter, Double-Blinded, Randomized, Placebo-Controlled Trial. Clin J Am Soc Nephrol, 2014.
- [4]. Drlica K, et al. DNA gyrase, topoisomerase IV, and the 4-quinolones. Microbiol Mol Biol Rev. 1997 Sep;61(3):377-92.

Caution: Product has not been fully validated for medical applications. For research use only.

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