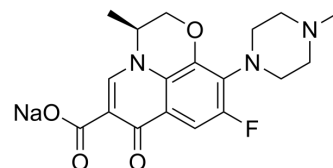


## Levofloxacin sodium

<b>Cat. No.:</b>	HY-B0330C
<b>CAS No.:</b>	872606-49-0
<b>Molecular Formula:</b>	C <sub>18</sub> H <sub>19</sub> FN <sub>3</sub> NaO <sub>4</sub>
<b>Molecular Weight:</b>	383.35
<b>Target:</b>	Antibiotic; Orthopoxvirus; Bacterial; DNA/RNA Synthesis; Topoisomerase
<b>Pathway:</b>	Anti-infection; Cell Cycle/DNA Damage
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

Levofloxacin ((-)-Ofloxacin) sodium is an orally active antibiotic and is active against both Gram-positive and Gram-negative bacteria. Levofloxacin sodium inhibits the DNA gyrase and topoisomerase IV. Levofloxacin sodium can be used for chronic periodontitis, airway inflammation and BK Viremia research. Levofloxacin sodium shows anti-orthopoxvirus activity<sup>[1][2][3][4][5]</sup>.

### CUSTOMER VALIDATION

- Clin Chem. 2019 Dec;65(12):1522-1531.
- Antimicrob Agents Chemother. 2021 Feb 17;65(3):e01921-20.
- Antibiotics (Basel). 2022, 11(2), 192.

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### REFERENCES

- [1]. Smee DF, et al. A review of compounds exhibiting anti-orthopoxvirus activity in animal models. Antiviral Res. 2003 Jan;57(1-2):41-52.
- [2]. 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.
- [3]. 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.
- [4]. 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.
- [5]. Drlica K, et al. DNA gyrase, topoisomerase IV, and the 4-quinolones. Microbiol Mol Biol Rev. 1997 Sep;61(3):377-92.

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

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