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Produktinformation



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Zuschläge

- Mindermengenzuschlag
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- Expressversand

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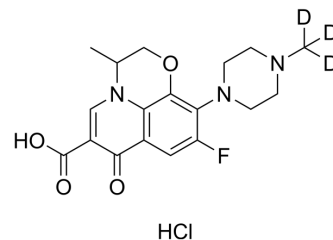
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Levofloxacin-d₃ hydrochloride

Cat. No.:	HY-B0330BS1
CAS No.:	1173021-78-7
Molecular Formula:	C ₁₈ H ₁₈ D ₃ ClFN ₃ O ₄
Molecular Weight:	400.85
Target:	Isotope-Labeled Compounds; Antibiotic; Bacterial; Topoisomerase; DNA/RNA Synthesis; Orthopoxvirus
Pathway:	Others; Anti-infection; Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Levofloxacin-d₃ ((-)-Ofloxacin-d₃) hydrochloride is deuterium labeled Levofloxacin (hydrochloride). 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][6]}.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-216.
- [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.
- [6]. Smee DF, et al. A review of compounds exhibiting anti-orthopoxvirus activity in animal models. Antiviral Res. 2003 Jan;57(1-2):41-52.

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

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