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Produktinformation



Forschungsprodukte & Biochemikalien



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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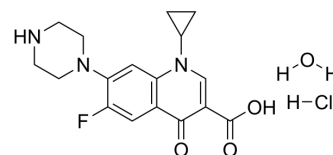
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Ciprofloxacin hydrochloride monohydrate (Standard)

Cat. No.:	HY-B0356BR
CAS No.:	86393-32-0
Molecular Formula:	C ₁₇ H ₂₁ ClFN ₃ O ₄
Molecular Weight:	385.82
Target:	Topoisomerase; Apoptosis; Mitochondrial Metabolism; Reactive Oxygen Species; Bacterial; Antibiotic
Pathway:	Cell Cycle/DNA Damage; Apoptosis; Metabolic Enzyme/Protease; Immunology/Inflammation; NF-κB; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Ciprofloxacin (hydrochloride monohydrate) (Standard) is the analytical standard of Ciprofloxacin (hydrochloride monohydrate). This product is intended for research and analytical applications. Ciprofloxacin (Bay-09867) hydrochloride monohydrate is a potent, orally active topoisomerase IV inhibitor. Ciprofloxacin hydrochloride monohydrate induces mitochondrial DNA and nuclear DNA damage and lead to mitochondrial dysfunction, ROS production. Ciprofloxacin hydrochloride monohydrate has anti-proliferative activity and induces apoptosis. Ciprofloxacin hydrochloride monohydrate is a fluoroquinolone antibiotic, exhibiting potent antibacterial activity^{[1][2][3][4]}.

REFERENCES

- [1]. Tsai WC, et, al. Ciprofloxacin-mediated cell proliferation inhibition and G2/M cell cycle arrest in rat tendon cells. *Arthritis Rheum.* 2008 Jun;58(6):1657-63.
- [2]. Steenberg J, et, al. In Vitro and In Vivo Activity of Omadacycline against Two Biothreat Pathogens, *Bacillus anthracis* and *Yersinia pestis*. *Antimicrob Agents Chemother.* 2017 Apr 24;61(5):e02434-16.
- [3]. Hamblin KA, et, al. Inhaled Liposomal Ciprofloxacin Protects against a Lethal Infection in a Murine Model of Pneumonic Plague. *Front Microbiol.* 2017 Feb 6;8:91.
- [4]. LeMaire SA, et, al. Effect of Ciprofloxacin on Susceptibility to Aortic Dissection and Rupture in Mice. *JAMA Surg.* 2018 Sep 1;153(9):e181804.

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

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