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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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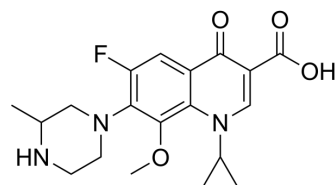
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Gatifloxacin (Standard)

Cat. No.:	HY-10581R
CAS No.:	112811-59-3
Molecular Formula:	C ₁₉ H ₂₂ FN ₃ O ₄
Molecular Weight:	375.39
Target:	Bacterial; Topoisomerase; Antibiotic
Pathway:	Anti-infection; Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Gatifloxacin (Standard) is the analytical standard of Gatifloxacin. This product is intended for research and analytical applications. Gatifloxacin (AM-1155; BMS-206584; PD135432) is a potent fluoroquinolone antibiotic with broad-spectrum antibacterial activity. Gatifloxacin inhibits bacterial type II topoisomerases (IC₅₀=13.8 µg/ml for *S. aureus* topoisomerase IV) and *E. coli* DNA gyrase (IC₅₀=0.109 µg/ml)^[1]. Gatifloxacin can be used to treat bacterial conjunctivitis in vivo.

REFERENCES

- [1]. Takei M, et al. Inhibitory activities of gatifloxacin (AM-1155), a newly developed fluoroquinolone, against bacterial and mammalian type II topoisomerases. *Antimicrob Agents Chemother.* 1998 Oct;42(10):2678-81.
- [2]. Fukuda H, et al. Antibacterial activity of gatifloxacin (AM-1155, CG5501, BMS-206584), a newly developed fluoroquinolone, against sequentially acquired quinolone-resistant mutants and the *norA* transformant of *Staphylococcus aureus*. *Antimicrob Agents Chemother.* 1998 Aug;42(8):1917-22.
- [3]. Yamada C, et al. Gatifloxacin acutely stimulates insulin secretion and chronically suppresses insulin biosynthesis. *Eur J Pharmacol.* 2006 Dec 28;553(1-3):67-72. Epub 2006 Sep 28.

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

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