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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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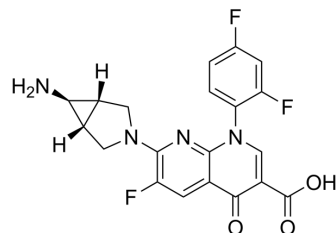
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Trovafloxacin (Standard)

Cat. No.:	HY-A0170R
CAS No.:	147059-72-1
Molecular Formula:	C ₂₀ H ₁₅ F ₃ N ₄ O ₃
Molecular Weight:	416.35
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	Trovafloxacin (Standard) is the analytical standard of Trovafloxacin. This product is intended for research and analytical applications. Trovafloxacin is a broad-spectrum quinolone antibiotic with potent activity against Gram-positive, Gram-negative and anaerobic organisms. Trovafloxacin blocks the DNA gyrase and topoisomerase IV activity. Trovafloxacin is also a potent, selective and orally active pannexin 1 channel (PANX1) inhibitor with an IC ₅₀ of 4 μM for PANX1 inward current. Trovafloxacin does not inhibit connexin 43 gap junction or PANX2. Trovafloxacin leads to dysregulated fragmentation of apoptotic cells by inhibiting PANX1 ^{[1][2][3]} .
IC₅₀ & Target	IC ₅₀ : 4 μM (Pannexin 1 channel (PANX1)) ^[2] Gram-positive, Gram-negative and anaerobic organisms ^[3] DNA gyrase ^[3] Topoisomerase IV ^[3]

REFERENCES

- [1]. Giustarini G, et al. The hepatotoxic fluoroquinolone trovafloxacin disturbs TNF- and LPS-induced p65 nuclear translocation in vivo and in vitro. *Toxicol Appl Pharmacol.* 2020 Mar 15;391:114915.
- [2]. Poon IK, et al. Unexpected link between an antibiotic, pannexin channels and apoptosis. *Nature.* 2014 Mar 20;507(7492):329-34.
- [3]. Gootz TD, et al. Activity of the new fluoroquinolone trovafloxacin (CP-99,219) against DNA gyrase and topoisomerase IV mutants of *Streptococcus pneumoniae* selected in vitro. *Antimicrob Agents Chemother.* 1996 Dec;40(12):2691-7.

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

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