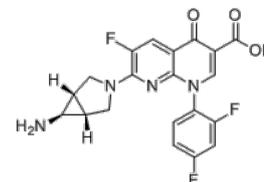


Product Name : Trovafloxacin
Cat. No. : PC-21765
CAS No. : 147059-72-1
Molecular Formula : C₂₀H₁₅F₃N₄O₃
Molecular Weight : 416.36
Target : Bacterial
Solubility : 10 mM in DMSO



Biological Activity

Trovafloxacin is a broad-spectrum quinolone antibiotic, blocks the DNA gyrase and topoisomerase IV activity, also is a potent, selective and orally active pannexin 1 channel (PANX1) inhibitor with IC₅₀ of 4 μM for PANX1 inward current. Trovafloxacin does not inhibit connexin 43 gap junction or PANX2.

Trovafloxacin induces apoptosis and increases leakage of lactate dehydrogenase (LDH) in HepG2 cells, increases expression of early NF-κB-related factors A20 and IκBα.

Trovafloxacin is equally active against both penicillin-susceptible and -resistant pneumococci, with MICs of 0.06-0.25 mg/mL.

References

Poon IK, et al. Nature. 2014 Mar 20;507(7492):329-34.

Gootz TD, et al. Antimicrob Agents Chemother. 1996 Dec;40(12):2691-7.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com