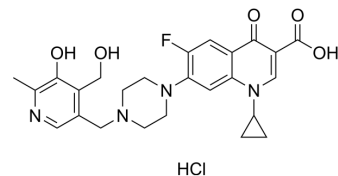


Antibacterial agent 154

Cat. No.:	HY-155250
CAS No.:	2163048-45-9
Molecular Formula:	C ₂₅ H ₂₈ ClFN ₄ O ₅
Molecular Weight:	518.97
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Antibacterial agent 154 (compound 7) is a derivative of Fluoroquinolones and is an orally effective antibacterial agent. Antibacterial agent 154 inhibits Gram-positive and Gram-negative bacteria. Antibacterial agent 154 demonstrated in vivo efficacy in a mouse model of staphylococcal sepsis ^[1] .
In Vitro	Antibacterial agent 154 (compound 7) inhibits Gram-positive bacteria <i>M. luteus</i> , <i>B. subtilis</i> , <i>S. aureus</i> , and <i>S. epidermidis</i> . The MICs are 4 µg/mL, 2 µg/mL, 2 µg/mL, and 2 µg/mL; the MICs for inhibiting Gram-negative bacteria <i>P. aeruginosa</i> , <i>E. coli</i> , and <i>S. typhimurium</i> are 2 µg/mL and 2 µg/mL respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Shtyrlin NV, et al. Synthesis and biological evaluation of fluoroquinolones containing a pyridoxine derivatives moiety. *Eur J Med Chem.* 2023 Sep 7;261:115798...

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

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