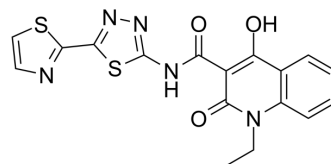


Antibacterial agent 98

Cat. No.:	HY-146403
CAS No.:	2408695-41-8
Molecular Formula:	C ₁₇ H ₁₃ N ₅ O ₃ S ₂
Molecular Weight:	399.45
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Antibacterial agent 98 (compound g37) is a potent and orally active antibacterial agent. Antibacterial agent 98 inhibits the ATPase activity of Gyrase B and impairs <i>Staphylococcus aureus</i> (<i>S. aureus</i>) DNA supercoiling. Antibacterial agent 98 shows antibacterial activity and not induce resistance development of MRSA (methicillin-resistant <i>S. aureus</i>) ^[1] .
In Vitro	Antibacterial agent 98 (compound g37) shows antibacterial activity with an MICs of 0.1 µg/mL for <i>S. aureus</i> ATCC29213 and an IC ₅₀ of 0.15 µM for GyrB ^[1] . Antibacterial agent 98 shows cytotoxicity with IC ₅₀ s of 55.3, 38.8 µM for HepG2, HUVEC cells, respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Xue W, et al. N-thiadiazole-4-hydroxy-2-quinolone-3-carboxamides bearing heteroaromatic rings as novel antibacterial agents: Design, synthesis, biological evaluation and target identification. *Eur J Med Chem.* 2020 Feb 15;188:112022.

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

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