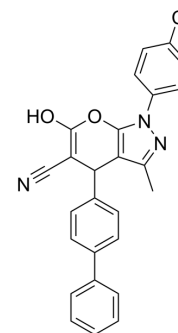


DNA Gyrase-IN-9

Cat. No.:	HY-149534
Molecular Formula:	C ₂₆ H ₁₈ ClN ₃ O ₂
Molecular Weight:	439.89
Target:	DNA/RNA Synthesis; Bacterial
Pathway:	Cell Cycle/DNA Damage; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	DNA Gyrase-IN-9 (compound 4j) is an antibacterial agent that targets DNA gyrase. The MIC to inhibit Gram bacteria is 0.5-2 μg/mL, and the MBC to kill Gram bacteria is 2-8 μg/mL. DNA Gyrase-IN-9 inhibits DNA gyrase in <i>Staphylococcus aureus</i> with IC ₅₀ =6.29 μg/mL ^[1] .
IC₅₀ & Target	IC ₅₀ : 6.29 μg/mL (DNA gyrase in <i>S. aureus</i>) ^[1]

REFERENCES

[1]. Almaghrabi M, et al. Introducing of novel class of pyrano [2, 3-c] pyrazole-5-carbonitrile analogs with potent antimicrobial activity, DNA gyrase inhibition, and prominent pharmacokinetic and CNS toxicity profiles supported by molecular dynamic simulation[J]. Journal of Biomolecular Structure and Dynamics, 2023: 1-18. . .

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

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