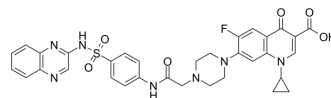


Topoisomerase IV inhibitor 2

Cat. No.:	HY-115991
Molecular Formula:	C ₃₃ H ₃₀ FN ₇ O ₆ S
Molecular Weight:	671.7
Target:	Topoisomerase; 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	Topoisomerase IV inhibitor 2 (compound 5d) is a potent DNA topoisomerase IV (TOPO IV) inhibitor with IC ₅₀ s of 0.35 μM and 0.55 μM for TOPO IV and DNA gyrase, respectively. Topoisomerase IV inhibitor 2 has anti-bacterial activity, with MICs of 1.985 μM and 0.744 μM in <i>Staphylococcus aureus</i> Newman and <i>Escherichia coli</i> ATCC8739, respectively ^[1] .
IC ₅₀ & Target	TOPO IV 0.35 μM (IC ₅₀)

REFERENCES

[1]. Ibrahim NM, et al. Design and synthesis of ciprofloxacin-sulfonamide hybrids to manipulate ciprofloxacin pharmacological qualities: Potency and side effects. *Eur J Med Chem.* 2022;228:114021.

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

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