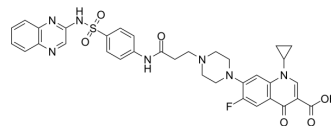


Topoisomerase IV inhibitor 1

| | |
|---------------------------|---|
| Cat. No.: | HY-115990 |
| CAS No.: | 2883403-42-5 |
| Molecular Formula: | C ₃₄ H ₃₂ FN ₇ O ₆ S |
| Molecular Weight: | 685.72 |
| 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 7d) is a potent DNA topoisomerase IV (TOPO IV) inhibitor with IC ₅₀ s of 0.23 μM and 0.43 μM for TOPO IV and DNA gyrase, respectively. Topoisomerase IV inhibitor 2 has anti-bacterial activity, with MICs of 0.972 μM and 0.608 μM in <i>Staphylococcus aureus</i> Newman and <i>Escherichia coli</i> ATCC8739, respectively ^[1] . |
| IC₅₀ & Target | TOPO IV 0.23 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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