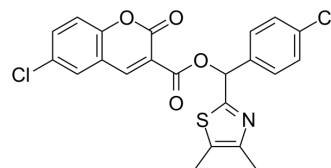


## DNA Gyrase-IN-4

Cat. No.:	HY-147948
CAS No.:	2416400-32-1
Molecular Formula:	C <sub>22</sub> H <sub>15</sub> Cl <sub>2</sub> NO <sub>4</sub> S
Molecular Weight:	460.33
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-4 (compound 8p) is a potent DNA gyrase inhibitor, with an IC <sub>50</sub> of 0.13 μM. DNA Gyrase-IN-4 shows excellent antibacterial activity against <i>Staphylococcus aureus</i> , <i>Listeria monocytogenes</i> , <i>Salmonella</i> and <i>Escherichia coli</i> , with MIC values of 0.05, 0.05, 0.05, and 8 μg/mL, respectively <sup>[1]</sup> .
IC <sub>50</sub> & Target	IC <sub>50</sub> : 0.13 μM (DNA gyrase) <sup>[1]</sup>

### REFERENCES

[1]. Liu H, et al. Novel coumarin-thiazolyl ester derivatives as potential DNA gyrase Inhibitors: Design, synthesis, and antibacterial activity. *Bioorg Chem.* 2020 Jul;100:103907.

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

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