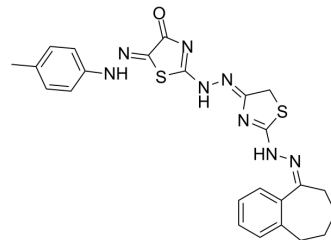


## DNA Gyrase-IN-2

Cat. No.:	HY-147818
CAS No.:	2522666-80-2
Molecular Formula:	C <sub>24</sub> H <sub>24</sub> N <sub>8</sub> O <sub>2</sub> S <sub>2</sub>
Molecular Weight:	504.63
Target:	Bacterial; DNA/RNA Synthesis
Pathway:	Anti-infection; Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

DNA Gyrase-IN-2 (Compound 22a) is a bacterial DNA gyrase B inhibitor with IC<sub>50</sub>s of 3.29-10.49 and 4.41-5.61 μM for E. coli DNA gyrase and M. tuberculosis DNA gyrase. Anti-tubercular and antibacterial activity<sup>[1]</sup>.

### REFERENCES

[1]. Mohamed A Omar, et al. Novel anti-tubercular and antibacterial based benzosuberone-thiazole moieties: Synthesis, molecular docking analysis, DNA gyrase supercoiling and ATPase activity. Bioorg Chem. 2020 Nov;104:104316.

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

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