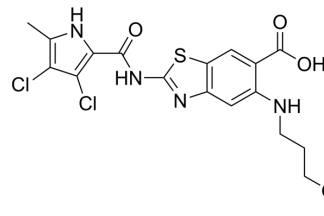


## DNA gyrase B-IN-2

Cat. No.:	HY-155007
Molecular Formula:	C <sub>18</sub> H <sub>18</sub> Cl <sub>2</sub> N <sub>4</sub> O <sub>4</sub> S
Molecular Weight:	457.33
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

Description	DNA gyrase B-IN-2 (Compound E) is a 2-aminobenzothiazole-based DNA gyrase B inhibitor with promising activity against ESKAPE bacterial pathogens. DNA gyrase B-IN-2 showed low nanomolar inhibition of DNA gyrase (IC <sub>50</sub> < 10 nM) and broad-spectrum antibacterial activity against pathogens belonging to the ESKAPE group, with the minimum inhibitory concentration < 0.03 µg/mL for most Gram-positive strains and 4–16 µg/mL against Gram-negative <i>E. coli</i> , <i>Acinetobacter baumannii</i> , <i>Pseudomonas aeruginosa</i> , and <i>Klebsiella pneumoniae</i> . DNA gyrase B-IN-2 can be used for the research of infection <sup>[1]</sup> .
IC <sub>50</sub> & Target	IC <sub>50</sub> : DNA gyrase (< 10 nM) <sup>[1]</sup> .

### REFERENCES

[1]. Sterle M, et al. Exploring the 5-Substituted 2-Aminobenzothiazole-Based DNA Gyrase B Inhibitors Active against ESKAPE Pathogens. ACS Omega. 2023 Jun 28;8(27):24387-24395.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA