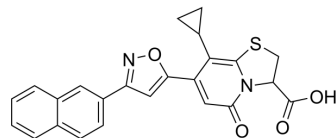


## Mtb-IN-4

Cat. No.:	HY-155720
CAS No.:	2306039-13-2
Molecular Formula:	C <sub>24</sub> H <sub>18</sub> N <sub>2</sub> O <sub>4</sub> S
Molecular Weight:	430.48
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

Description	Mtb-IN-4 (compound 17h) is a nontoxic isoxazole, with anti-Myco <b>a</b> cterium tuberculosis (Mtb) activity (IC <sub>50</sub> =0.70 μM). Mtb-IN-4 inhibits Mtb respiration and biofilm formation in macrophage, and enhances antibiotic isoniazid (INH) inhibition against INH-resistant Mtb mutant <sup>[1]</sup> .
IC <sub>50</sub> & Target	Myco <b>a</b> cterium tuberculosis (Mtb) <sup>[1]</sup>
In Vitro	Mtb-IN-4 potently resensitizes an Mtb katG mutant to inhibition by INH <sup>[1]</sup> . Mtb-IN-4 inhibits the growth of intracellular Mtb within murine RAW 264.7 macrophages with IC <sub>50</sub> of 3.467 μM <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Sarkar S, et al. Design, Synthesis, and Evaluation of Novel Δ2-Thiazolino 2-Pyridone Derivatives That Potentiate Isoniazid Activity in an Isoniazid-Resistant Myco**a**cterium tuberculosis Mutant. J Med Chem. 2023 Aug 24;66(16):11056-11077.

**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