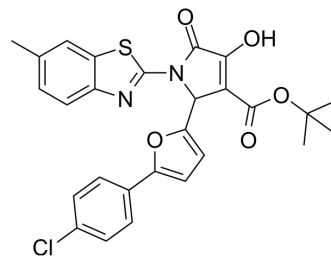


MurA-IN-3

Cat. No.:	HY-151875
CAS No.:	2866186-38-9
Molecular Formula:	C ₂₇ H ₂₃ ClN ₂ O ₅ S
Molecular Weight:	523
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	MurA-IN-3 is a reversible pyrrolidinedione-based MurA inhibitor. MurA-IN-3 has inhibitory activity for MurA with an IC ₅₀ value of 4.5 μM. MurA-IN-3 also has antibacterial activity ^[1] .
IC₅₀ & Target	IC ₅₀ : 4.5 μM (MurA); 4.9 μM (C115D MurA mutant) ^[1] .
In Vitro	MurA-IN-3 has inhibitory activity for MurA and C115D MurA mutant with IC ₅₀ values of 4.5 μM and 4.9 μM, respectively ^[1] . MurA-IN-3 (0-100 μM; 24 h) has no cytotoxicity on both MRC-5 and HepG2 cell lines ^[1] . MurA-IN-3 has antibacterial activity and pronounced stability ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Reem K Fathalla, et al. Identification and Biochemical Characterization of Pyrrolidinediones as Novel Inhibitors of the Bacterial Enzyme MurA. J Med Chem. 2022 Nov 10;65(21):14740-14763.

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

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