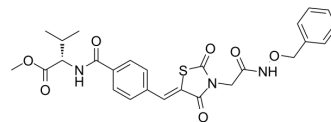


Mycobacterial Zmp1-IN-1

Cat. No.:	HY-152035
Molecular Formula:	C ₂₆ H ₂₇ N ₃ O ₇ S
Molecular Weight:	525.57
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Mycobacterial Zmp1-IN-1 is a mycobacterial zinc metalloprotease-1 (Zmp1) inhibitor. Mycobacterial Zmp1-IN-1 has anti-mycobacterial activity for Mtb H37Ra in dose-dependent inhibition. Mycobacterial Zmp1-IN-1 can be used for the research of tuberculosis (TB) ^[1] .
In Vitro	Mycobacterial Zmp1-IN-1 (Compound 2f) has antimycobacterial activity for M. bovis and Mtb H37Ra in dose-dependent inhibition ^[1] . Mycobacterial Zmp1-IN-1 has no acute cellular toxicity against the RAW 264.7 and MRC-5 cell line with IC ₅₀ values both of \geq 128 μ M ^[1] . Mycobacterial Zmp1-IN-1 (8 μ M, 32 μ M, 128 μ M) induces a reduction of bacterial survival within the macrophage host cell ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Milan Dak, et al. Novel heterocyclic hydroxamates as inhibitors of the mycobacterial zinc metalloprotease Zmp1 to probe its mechanism of function. Eur J Med Chem. 2022 Dec 15;244:114831.

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

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