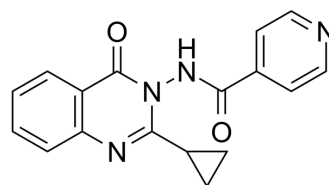


Antitubercular agent-28

Cat. No.:	HY-147884
CAS No.:	2460651-10-7
Molecular Formula:	C ₁₇ H ₁₄ N ₄ O ₂
Molecular Weight:	306.32
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Antitubercular agent-28 (compound 2) is a potent antitubercular agent with an IC ₅₀ value of 1.5 μM, an MIC value of 4.5 μM, an IC ₉₀ value of 2.5 μM. Antitubercular agent-28 shows antimycobacterial activity for resistant isolates of Mycobacterium tuberculosis H37Rv. Antitubercular agent-28 shows effective intracellular antimycobacterial activity and low cytotoxicity ^[1] .
In Vitro	<p>Antitubercular agent-28 (compound 2) shows antimycobacterial activity for resistant isolates of M. tuberculosis H37Rv with IC₅₀s of 2.9, 125, 130, 1.3, 3.8 μM, MICs of 3.3, 170, 190, 1.8, 8.4 μM, IC₉₀s of 3.1, 140, 180, 1.5, 4.8 μM for FQ-R1, INH-R1, INH-R2, RIF-R1, RIF-R2 respectively^[1].</p> <p>Antitubercular agent-28 (0-200 μM) shows antibacterial activity with an MIC value of 170 μM, IC₅₀ value of 2.96 μM, and IC₉₀ value of 19 μM in low oxygen condition, and an MIC value of 1.77 μM, IC₅₀ value of 1.02 μM, and IC₉₀ value of 1.34 μM in normal oxygen condition^[1].</p> <p>Antitubercular agent-28 (0-200 μM) shows intracellular activity with an IC₅₀ value of 2.15 μM, and IC₉₀ value of 2.85 μM, and low cytotoxicity with an IC₅₀ value of >100 μM^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

[1]. Patel H, et al. Synthesis and in vitro antitubercular activity of pyridine analogues against the resistant Mycobacterium tuberculosis. Bioorg Chem. 2020 Sep;102:104099.

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

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