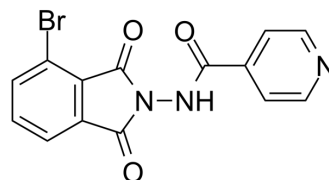


## Antitubercular agent-27

Cat. No.:	HY-147883
CAS No.:	2460651-09-4
Molecular Formula:	C <sub>14</sub> H <sub>8</sub> BrN <sub>3</sub> O <sub>3</sub>
Molecular Weight:	346.14
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Antitubercular agent-27 (compound 1) is a potent antitubercular agent with an IC <sub>50</sub> value of 3.2 μM, an MIC value of 7.8 μM, an IC <sub>90</sub> value of 7.0 μM. Antitubercular agent-27 shows antimycobacterial activity for resistant isolates of Mycobacterium tuberculosis H37Rv. Antitubercular agent-27 shows effective intracellular antimycobacterial activity and low cytotoxicity <sup>[1]</sup> .
<b>In Vitro</b>	<p>Antitubercular agent-27 (compound 1) shows antimycobacterial activity for resistant isolates of M. tuberculosis H37Rv with IC<sub>50</sub>s of 2.4, 100, 120, 1.3, 3.1 μM, MICs of 3.2, 140, 160, 2.4, 4.2 μM, IC<sub>90</sub>s of 3.0, 120, 142, 2.2, 3.5 μM for FQ-R1, INH-R1, INH-R2, RIF-R1, RIF-R2, respectively<sup>[1]</sup>.</p> <p>Antitubercular agent-27 (0-200 μM) shows antibacterial activity with an MIC value of 0.80 μM, IC<sub>50</sub> value of 0.23 μM, and IC<sub>90</sub> value of 0.43 μM in low oxygen condition, and an MIC value of 0.45 μM, IC<sub>50</sub> value of 0.27 μM, and IC<sub>90</sub> value of 0.35 μM in normal oxygen condition<sup>[1]</sup>.</p> <p>Antitubercular agent-27 (0-200 μM) shows intracellular activity with an IC<sub>50</sub> value of 1.45 μM, and IC<sub>90</sub> value of 1.61 μM, and low cytotoxicity with an IC<sub>50</sub> value of &gt;100 μM<sup>[1]</sup>.</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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