

## **Product** Data Sheet

## **Antituberculosis agent-7**

**Cat. No.:** HY-152137

CAS No.: 2874263-73-5 Molecular Formula:  $C_{26}H_{19}F_4NO_3$ 

Molecular Weight: 469.43

Target: Bacterial; Fungal; Antibiotic

Pathway: Anti-infection

Storage: Please store the product under the recommended conditions in the Certificate of

Analysis.

## **BIOLOGICAL ACTIVITY**

Description	Antituberculosis agent-7, an oxetanyl-quinoline derivative, has shown good antibacterial activity against P. mirabilis with a MIC of 31.25 $\mu$ M. Antituberculosis agent-7 shows good antifungal activity against A. niger with a MIC of 62.5 $\mu$ M. Antituberculosis agent-7 shows excellent antimycobacterial activity with MIC 3.41 $\mu$ M for M. tuberculosis H37Rv <sup>[1]</sup> .
In Vitro	Antituberculosis agent-7 (compound 9h) has MICs of >250 $\mu$ M, 250 $\mu$ M, 250 $\mu$ M for E. coli, B. subtilis, S. albus, C. albicans, respectively <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## **REFERENCES**

[1]. Abhijit Shinde, et al. Synthesis, Characterization, and Antimicrobial Activity Screening of Some Novel 3-(2-(3-(Substituted benzyloxy)oxetan-3-yl)-3-fluorophenoxy)-8-fluoro-2-methylquinoline Derivatives as Potential Antimycobacterial Agents. ACS Omega. 2022 Dec 6;7(50):47096-47107.

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

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