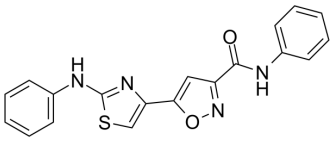
Antitubercular agent 34

Cat. No.:	HY-151957
CAS No.:	2883173-23-5
Molecular Formula:	$C_{19}H_{14}N_4O_2S$
Molecular Weight:	362.41
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Antitubercular agent 34 (compound 42g) is an antitubercular agent. Antitubercular agent 34 inhibits the growth of Mtb_{H37Rv} with a MIC_{90} value of 1.25 μg/mL with the ability of escaping metabolic degradation by human liver microsomes. Antitubercular agent 34 can be used for the research of tuberculosis[1].
In Vitro	Antitubercular agent 34 (0-20 μg/mL; 3-4 d) shows inhibitory effect to Mtb_{H37Rv} with a MIC_{90} value of 1.25 μg/mL[1]. Antitubercular agent 34 (0-100 μM; 3 d) shows inhibitory effect to human monocytes THP-I cell line[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Viability Assay[1]

Cell Line:	Human monocytes THP-I cell line
Concentration:	1, 10, 50 and 100 μM
Incubation Time:	72 hours
Result:	Inhibited the growth of THP-I cells with an IC_{50} value of 11.9 μg/mL.

REFERENCES

[1]. Girardini M, et al. Expanding the knowledge around antitubercular 5-(2-aminothiazol-4-yl)isoxazole-3-carboxamides: Hit-to-lead optimization and release of a novel antitubercular chemotype via scaffold derivatization. Eur J Med Chem. 2023 Jan 5;245(Pt 2):114916.

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