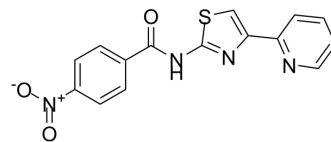


Antimycobacterial agent-4

Cat. No.:	HY-148180
CAS No.:	476319-66-1
Molecular Formula:	C ₁₅ H ₁₀ N ₄ O ₃ S
Molecular Weight:	326.33
Target:	Bacterial; Parasite
Pathway:	Anti-infection
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



BIOLOGICAL ACTIVITY

Description	Antimycobacterial agent-4 is a 2-amino-4-(2-pyridyl) thiazole derivative, with antimycobacterial activity, antiplasmodial activity, and cytotoxicity on a mammalian cell line ^{[1][2]} .
IC₅₀ & Target	Plasmodium
In Vitro	Antimycobacterial agent-4 (compound 12) exerts antimycobacterial activity against the Mycobacterium tuberculosis H37Rv strain (MIC ₉₉ =5 μM), and antiplasmodial activity against the Chloroquine (HY-17589A) sensitive NF54 Plasmodium falciparum strain (IC ₅₀ =6.1 μM) and cytotoxicity on a mammalian cell line (CHO, IC ₅₀ =2.2 μM) ^[1] . Antimycobacterial agent-4 (compound 38) shows cytotoxicity against Vero cells with toxic concentration TC ₅₀ of 3.0 μM ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Mjambili F, et al. Synthesis and biological evaluation of 2-aminothiazole derivatives as antimycobacterial and antiplasmodial agents. *Bioorg Med Chem Lett*. 2014 Jan 15;24(2):560-4.
- [2]. Kesicki EA, et al. Synthesis and Evaluation of the 2-Aminothiazoles as Anti-Tubercular Agents. *PLoS One*. 2016 May 12;11(5):e0155209.

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

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