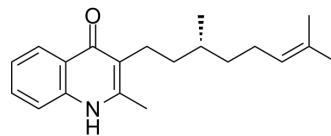


Mtb-cyt-bd oxidase-IN-6

Cat. No.:	HY-151553
CAS No.:	1246461-10-8
Molecular Formula:	C ₂₀ H ₂₇ NO
Molecular Weight:	297.43
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Mtb-cyt-bd oxidase-IN-6 is a potent Mycobacterium tuberculosis (Mtb) cytochrome bd (cyt-bd) oxidase (MtbCyt-bd Oxidase) inhibitor with an IC ₅₀ value of 0.35 μM. Mtb-cyt-bd oxidase-IN-6 can effectively inhibit the growth of Mtb (MIC= 4 μM). Mtb-cyt-bd oxidase-IN-6 can be used in the study of tuberculosis ^[1] .
IC₅₀ & Target	IC ₅₀ : 0.37 μM (MtbCyt-bd Oxidase) ^[1]
In Vitro	Mtb-cyt-bd oxidase-IN-5 (compound 1d; 0-2048 μM; 7 days) inhibits growth of M. tuberculosis with a MIC value of 256 μM ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Lawer A, et, al. Synthesis and Biological Evaluation of Aurachin D Analogues as Inhibitors of Mycobacterium tuberculosis Cytochrome bd Oxidase. ACS Med Chem Lett. 2022 Sep 26;13(10):1663-1669.

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

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