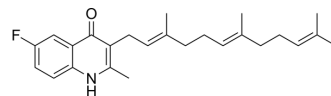


## Mtb-cyt-bd oxidase-IN-4

Cat. No.:	HY-151551
Molecular Formula:	C <sub>25</sub> H <sub>32</sub> FNO
Molecular Weight:	381.53
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Mtb-cyt-bd oxidase-IN-4 (compound 1g) is a Mycobacterium tuberculosis cytochrome bd oxidase (Mtb cyt-bd oxidase) inhibitor with an IC <sub>50</sub> value of 0.25 μM. Mtb-cyt-bd oxidase-IN-4 inhibits the growth of Mycobacterium tuberculosis (MIC=8 μM). Mtb-cyt-bd oxidase-IN-4 can be used in tuberculosis research <sup>[1]</sup> .
<b>In Vitro</b>	Mtb-cyt-bd oxidase-IN-4 inhibits the growth of Mycobacterium tuberculosis and Mycobacterium smegmatis with MICs of 8 μM and >512 μM, respectively <sup>[1]</sup> . 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.

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

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