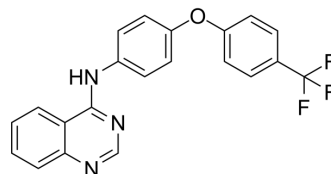


## ND-011992

Cat. No.:	HY-155107
CAS No.:	2446880-46-0
Molecular Formula:	C <sub>21</sub> H <sub>14</sub> F <sub>3</sub> N <sub>3</sub> O
Molecular Weight:	381.35
Target:	Mitochondrial Metabolism; Bacterial
Pathway:	Metabolic Enzyme/Protease; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



## BIOLOGICAL ACTIVITY

Description	ND-011992 is a reversible, selective quinazoline-type inhibitor targeting quinone reductases and quinol oxidases. ND-011992 inhibits respiratory complex I and bo <sub>3</sub> oxidase in addition to bd-I and bd-II oxidases in E. coli strain BL21*Δcyo with the IC <sub>50</sub> of 0.12, 2.47, 0.63 and 1.3 μM, respectively. ND-011992 can be used for tuberculosis study <sup>[1]</sup> .
IC <sub>50</sub> & Target	0.12 μM (respiratory complex I), 2.47 μM (bo <sub>3</sub> oxidase), 0.63 (bd-I oxidases), 1.3 μM (bd-II oxidases)
In Vitro	ND-011992 inhibits NADH oxidase activity of membranes from bovine heart mitochondria with an IC <sub>50</sub> of 3.27 μM <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## REFERENCES

[1]. Kägi J, et al. Exploring ND-011992, a quinazoline-type inhibitor targeting quinone reductases and quinol oxidases. Sci Rep. 2023;13(1):12226. Published 2023 Jul 28. doi:10.1038/s41598-023-39430-w

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

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