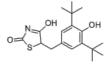


## **Data Sheet**

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Global Supplier of Chemical Probes, Inhibitors & Agonists.

**Product Name**: mitoNEET Ligand-1



## **Biological Activity**

mitoNEET Ligand-1 (NL-1) is a small molecule ligand of **mitoNEET**, a protein that regulate the oxidative capacity of the mitochondria.

mitoNEET is a viable target for the design and synthesis of novel therapeutic agents aimed at altering mitochondrial function.

NL-1 uncoupled isolated mitochondrial complex I respiration with an IC50 of  $2.4~\mu M$  and inhibited state III respiration up to 45%, protected the human neuronal cell line SH-SY5Y against rotenone induced cell death.

NL-1 reduced expression of mRNA encoding pro-inflammatory cytokines IL-1 $\beta$ , IL-6, and TNF $\alpha$ , and of mRNA encoding inflammatory mediators iNOS and COX2 in RAW264.7 cells.

NL-1 also reduced expression of mRNA encoding iNOS and COX2 in the spleen and liver of mice with LPS-induced sepsis in injected mice, attenuated LPS-induced oxidative stress and mitochondrial dysfunction.

## References

Logan SJ, et al. *Basic Res Cardiol.* 2015 Mar;110(2):19.

Lee S, et al. *Cell Death Dis.* 2022 Feb 8;13(2):127.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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