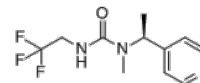


Product Name : SARM1 inhibitor NB-3
Cat. No. : PC-49319
CAS No. :
Molecular Formula : C₁₁H₁₄F₃N₃O
Molecular Weight : 261.248
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

SARM1 inhibitor NB-3 is a potent, selective and uncompetitive inhibitor of the nicotinamide adenine dinucleotide (NAD) hydrolase **SARM1** with biochemical IC₅₀ of 0.195 uM, and IC₅₀ of 0.08 uM in SARM-induced cell-death rescue assays. SARM1 inhibitor NB-3 targets the NAD-dependent active-site by intercepting NAD hydrolysis and undergoing covalent conjugation with the reaction product adenosine diphosphate ribose (ADPR).

SARM1 inhibitor NB-3 is highly potent and confer compelling neuroprotection in preclinical models of neurological injury and disease.

NB-3 does not inhibit the most closely related NAD hydrolase, CD38, and a panel of Sirtuins and PARPs (IC₅₀ > 50 μM)

NB-3 lowers plasma NFL and improves functional outcomes in preclinical models of nerve injury and neuropathy.

NB-3 attenuates neurodegeneration decline in preclinical models of chemotherapy-induced peripheral neuropathy (CIPN).

References

Matthew Bratkowski, et al. **Neuron**. 2022 Nov 16;110(22):3711-3726.e16.

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

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