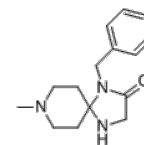


Product Name : PTI-125
Cat. No. : PC-72845
CAS No. : 1224591-33-6
Molecular Formula : C₁₅H₂₁N₃O
Molecular Weight : 259.353
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

PTI-125 (Simufilam, Sumifilam) is a small molecule targeting scaffolding protein filamin A (**FLNA**), preferentially binds altered FLNA and restores its native conformation.

PTI-125 restores receptor and synaptic activities and reducing its $\alpha 7$ nAChR/TLR4 associations and downstream pathologies. PTI-125 reduces tau hyperphosphorylation, aggregated A β 42 deposition, neurofibrillary tangles, and neuroinflammation in triple-transgenic (3xTg) Alzheimer's disease (AD) mice.

PTI-125 alleviates neuronal abnormalities and reduced seizure frequency in mice modeling TSC and FCDII with mutations in PI3K-ras homolog enriched in brain (Rheb) pathway genes.

References

Zhang L, et al. *Sci Transl Med*. 2020 Feb 19;12(531):eaay0289.

Wang HY, et al. *Neurobiol Aging*. 2017 Jul;55:99-114.

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

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