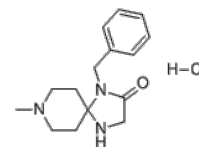


Product Name : Simufilam hydrochloride
Cat. No. : PC-72846
CAS No. : 2480226-07-9
Molecular Formula : C₁₅H₂₂ClN₃O
Molecular Weight : 295.811
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

Simufilam hydrochloride (PTI-125) 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 $\alpha 7nAChR/TLR4$ 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!

E-mail: tech@probechem.com