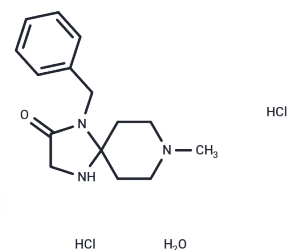


Simufilamum Dihydrochloride Monohydrate

Chemical Properties

CAS No. :	2375909-85-4
Formula:	C ₁₅ H ₂₅ Cl ₂ N ₃ O ₂
Molecular Weight:	350.28
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Simufilamum (also known as PTI-125) is an oral small-molecule compound candidate that targets altered conformations of filamin A. It binds and reverts the misfolded filamin A in the brains of Alzheimer's disease patients, thereby slowing the disease's pathological progression. Additionally, PTI-125 reduces tau protein hyperphosphorylation, decreases Aβ ₄₂ aggregation and deposition, neurofibrillary tangles, and neuroinflammation. The compound demonstrates concentration-dependent efficacy in vitro, starting at 1 picomolar (pM), in both control groups and post-mortem hippocampal slices from Alzheimer's disease (AD) patients. PTI-125 is the first therapeutic candidate to preferentially bind and reverse pathogenic protein conformations.
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8549 mL	14.2743 mL	28.5486 mL
5 mM	0.571 mL	2.8549 mL	5.7097 mL
10 mM	0.2855 mL	1.4274 mL	2.8549 mL
50 mM	0.0571 mL	0.2855 mL	0.571 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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