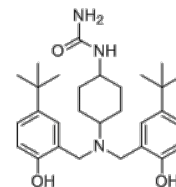


Product Name : Cofilin inhibitor SZ-3
Cat. No. : PC-38009
CAS No. : 2556443-73-1
Molecular Formula : C₂₉H₄₃N₃O₃
Molecular Weight : 481.681
Target : Other Targets
Solubility : 10 mM in DMSO



1. Alaqel SI, et al. *ACS Chem Neurosci.* 2022 Apr 6;13(7):1014-1029.

Biological Activity

Cofilin inhibitor SZ-3 (SZ-3) is a first-in-class small-molecule inhibitor of **cofilin**, shows potent anti-inflammatory activities. SZ-3 shows no effect on neuronal/microglial survival but prevents microglia from LPS-induced inflammation by decreasing NO and preventing neurotoxicity.

SZ-3 decreases cofilin severing activity, and attenuates microglial activation and suppresses migration and proliferation in LPS-activated HMC-3 cells.

SZ-3 shows significantly decreased NO and TNF- α , significantly increases protein expression of phosphocofilin, and decreases PAR-1 in model for hemorrhagic stroke.

SZ-3-treated SHSY-5Y showed a significant increase in cell viability by significantly reducing nuclear factor- κ B (NF- κ B), caspase-3, and high-temperature requirement (HtrA2).

References

