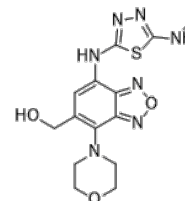


Product Name : δ -secretase inhibitor 11a
Cat. No. : PC-28350
CAS No. : 2565572-83-8
Molecular Formula : C₁₄H₁₇N₇O₃S
Molecular Weight : 363.40
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

δ -secretase inhibitor 11a (AEP inhibitor CP#11A) is a potent, selective **δ -secretase** (Asparagine endopeptidase, **AEP**, Legumain) inhibitor with IC₅₀ of 10 nM, and binding affinity K_d of 5.5 nM.

δ -secretase inhibitor 11a (AEP inhibitor CP#11A) blocks δ -secretase in primary neurons, dose-dependently attenuates APP N585 and Tau N368 fragmentation by active AEP.

δ -secretase inhibitor 11a (AEP inhibitor CP#11A) blocks AEP auto-activation via proteolytic cleavage.

δ -secretase inhibitor 11a (AEP inhibitor CP#11A) weakly inhibits caspase-3 with IC₅₀ of 30.2 μ M.

Combination of δ -secretase inhibitor 11a and TrkB receptor agonist (CF3CN) synergistically blunts δ -secretase, exhibiting promising therapeutic efficacy in 3xTg AD mouse model.

References

Jianming Liao, et al. *Neuropharmacology*. 2021 Oct 1:197:108737.

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

E-mail: tech@probechem.com