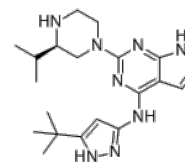


Product Name : Spastazoline
Cat. No. : PC-36108
CAS No. : 2351882-11-4
Molecular Formula : C₂₀H₃₀N₈
Molecular Weight : 382.516
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

Spastazoline is a potent, selective, cell-permeable, ATP-competitive inhibitor of human **Spastin**, inhibits the steady-state ATPase activity of the Hs-spastin with IC₅₀ of 99 nM.

Spastazoline does not appreciably inhibit any of the four related AAA proteins (XI-katanin, Hs-FIGL1, Mm-VCP and Hs-PCH2) at 10 μM, also does not inhibit ATPase activity of recombinant human VPS4.

Spastazoline inhibited Hs-spastin-N386C mutant >100-fold less potently than the wild-type protein; causes a ~2-fold increase in the number of cells with intercellular bridges in treated HeLa-WT cells with spastazoline (4.5h at 10 μM) without effect on the viability and organization of microtubules of HeLa cell.

Inhibition of spastin activity probably suppresses microtubule severing and thereby impairs spastin dissociation and the loss of ESCRT-III from the sites of membrane constriction; Spastazoline is a valuable probe spastin's function in dynamic cellular processes.

References

Cupido T, et al. *Nat Chem Biol.* 2019 Feb 18. doi: 10.1038/s41589-019-0225-6.

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

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