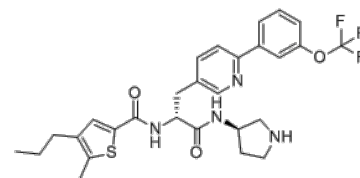


Product Name : AZ82
Cat. No. : PC-62374
CAS No. : 1449578-65-7
Molecular Formula : C₂₈H₃₁F₃N₄O₃S
Molecular Weight : 560.6
Target : Kinesin
Solubility : 10 mM in DMSO



Biological Activity

AZ82 (KIFC1 inhibitor AZ82) is the first reported small molecule inhibitor of motor protein **KIFC1** that inhibits the MT-stimulated KIFC1 enzymatic activity in an ATP-competitive and MT-noncompetitive manner with K_i of 43 nM. AZ82 effectively engages with the minus end-directed KIFC1 motor inside cells to reverse the monopolar spindle phenotype induced by the inhibition of the plus end-directed kinesin Eg5. AZ82 causes centrosome declustering in BT-549 breast cancer cells with amplified centrosomes.

References

- Wu J, et al. *ACS Chem Biol*. 2013 Oct 18;8(10):2201-8.
Yang B, et al. *J Med Chem*. 2014 Dec 11;57(23):9958-70.

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

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