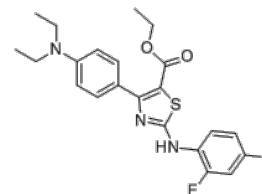


Product Name : Dynarrestin
Cat. No. : PC-62399
CAS No. : 2222768-84-3
Molecular Formula : C₂₂H₂₃F₂N₃O₂S
Molecular Weight : 431.502
Target : Dynein
Solubility : 10 mM in DMSO



Biological Activity

Dynarrestin is a novel inhibitor of cytoplasmic **Dyneins 1 and 2**, acts reversibly to inhibit cytoplasmic dynein 1-dependent microtubule binding and motility in vitro without affecting ATP hydrolysis.

Dynarrestin rapidly and reversibly inhibits endosome movement in living cells and perturbs mitosis by inducing spindle misorientation and pseudoprometaphase delay.

Dynarrestin reversibly inhibits cytoplasmic dynein 2-dependent intraflagellar transport (IFT) of the cargo IFT88 and flux of Smo within cilia without interfering with ciliogenesis and suppresses Hh-dependent proliferation of neuronal precursors and tumor cells.

References

Höing S, et al. **Cell Chem Biol.** 2018 Jan 26. pii: S2451-9456(17)30463-4.

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

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