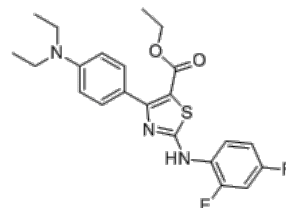


Product Name	: Dynarrestin
Synonyms	: Dynarrestin
Cat No.	: M13550
CAS Number	: 2222768-84-3
Molecular Formula	: C ₂₂ H ₂₃ F ₂ N ₃ O ₂ S
Formula Weight	: 431.50
Chemical Name	: ethyl 4-(4-(diethylamino)phenyl)-2-((2,4-difluorophenyl)amino)thiazole-5-carboxylate
Description	Dynarrestin is a novel inhibitor of cytoplasmic Dyneins 1 and 2, acts reversibly to inhibit cytoplasmic dynein 1-dependent microtubule binding and motility in vitro without affecting ATP hydrolysis; rapidly and reversibly inhibits endosome movement in living cells and perturbs mitosis by inducing spindle misorientation and pseudoprometaphase delay; 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.
Pathway	: Cytoskeleton/Cell Adhesion Molecules
Target	: Dynein
Receptor	: Dynein
Solubility	: —
SMILES	: <chem>O=C(C1=C(C2=CC=C(N(CC)CC)C=C2)N=C(NC3=CC=C(F)C=C3F)S1)OCC</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:



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