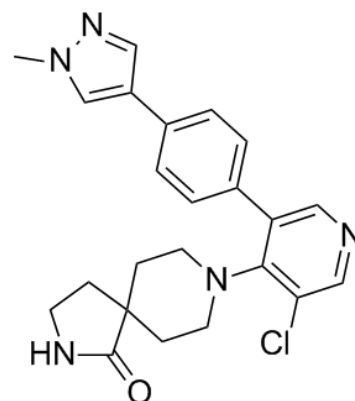


Product Name : CCT251545
Cat. No. : PC-43145
CAS No. : 1661839-45-7
Molecular Formula : C₂₃H₂₄ClN₅O
Molecular Weight : 421.9225
Target : Cyclin-dependent Kinase (CDK)
Solubility : DMSO: ≥ 50 mg/mL



Biological Activity

CCT251545 is a potent, orally bioavailable inhibitor of **Wnt signaling** with IC₅₀ of 5 nM, also is a potent and selective chemical probe for **CDK8** and **CDK19** with >100-fold selectivity over 291 other kinases. CCT251545 potently inhibits reporter-based readouts of basal WNT pathway activity in LS174T and SW480 cells in the absence of WNT ligand with IC₅₀ of 23 and 190 nM, respectively. CCT251545 demonstrates potent inhibition of WNT pathway activity in APC mutant human colorectal cancer cell line with IC₅₀ of 35 nM. CCT251545 inhibits phospho-STAT1SER727 levels in SW620 cells with IC₅₀ of 9 nM. CCT251545 demonstrate in vivo activity in WNT-dependent tumors.

References

Mallinger A, et al. *J Med Chem*. 2015 Feb 26;58(4):1717-35.
Dale T, et al. *Nat Chem Biol*. 2015 Dec;11(12):973-980.

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

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