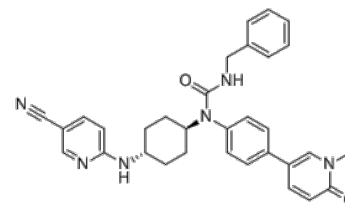


Product Name : CDK12 inhibitor 2
Cat. No. : PC-35525
CAS No. : 2244987-03-7
Molecular Formula : C₃₂H₃₂N₆O₂
Molecular Weight : 532.648
Target : Cyclin-dependent Kinase (CDK)
Solubility : 10 mM in DMSO



Biological Activity

CDK12 inhibitor 2 is (CDK12-IN-2) is a potent, selective, non-covalent **CDK12** inhibitor with IC₅₀ of 52 nM, displays >192-fold selectivity over CDK2/7/8/9.

CDK12 inhibitor 2 also potently inhibitor CDK13 with IC₅₀ of 10 nM.

CDK12 inhibitor 2 inhibits the phosphorylation of Ser2 in the C-terminal domain (CTD) of RNA polymerase II in SK-BR-3 cells at low submicromolar concentrations (iC₅₀=0.195 uM), inhibits the growth of SK-BR-3 cells with IC₅₀ of 0.8 uM.

References

Ito M, et al. *J Med Chem.* 2018 Aug 1. doi: 10.1021/acs.jmedchem.8b00683.

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

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