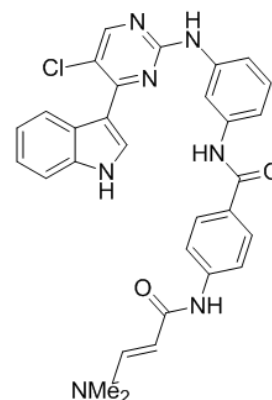


Product Name : THZ1
Cat. No. : PC-46008
CAS No. : 1604810-83-4
Molecular Formula : C₃₁H₂₈ClN₇O₂
Molecular Weight : 566.0527
Target : Cyclin-dependent Kinase (CDK)
Solubility : DMSO: ≥ 27 mg/mL



Biological Activity

THZ1 is a potent, selective, covalent **CDK7** inhibitor with IC₅₀ of 3.2 nM, also weakly inhibits CDK12 with IC₅₀ of 250 nM. THZ1 displays broad-based activity a subset of cancer cell lines with IC₅₀s of <200 nM. THZ1 causes decreased cellular proliferation and an increase in apoptotic index (MCL-1, XIAP), disproportionally affects transcription of RUNX1 in Jurkat T-ALL cells. THZ1 demonstrates efficacy against primary leukemia cells and in a bioluminescent xenografted model at 10mg/kg.

References

- Kwiatkowski N, et al. **Nature**. 2014 Jul 31;511(7511):616-20.
 Chipumuro E, et al. **Cell**. 2014 Nov 20;159(5):1126-39.
 Christensen CL, et al. **Cancer Cell**. 2014 Dec 8;26(6):909-22.

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

E-mail: tech@probechem.com