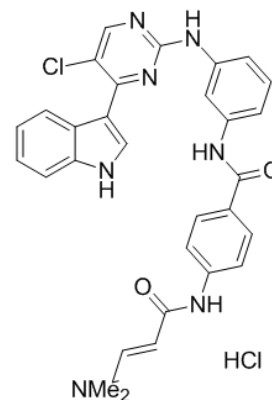


**Product Name** : THZ1 hydrochloride  
**Cat. No.** : PC-46009  
**CAS No.** :  
**Molecular Formula** : C<sub>31</sub>H<sub>29</sub>Cl<sub>2</sub>N<sub>7</sub>O<sub>2</sub>  
**Molecular Weight** : 602.5137  
**Target** : Cyclin-dependent Kinase (CDK)  
**Solubility** : DMSO: 22.5 mg/mL



## Biological Activity

THZ1 hydrochloride is a potent, selective, covalent **CDK7** inhibitor with IC<sub>50</sub> of 3.2 nM.

THZ1 also weakly inhibits CDK12 with IC<sub>50</sub> of 250 nM.

THZ1 displays broad-based activity a subset of cancer cell lines with IC<sub>50</sub>s 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!**

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