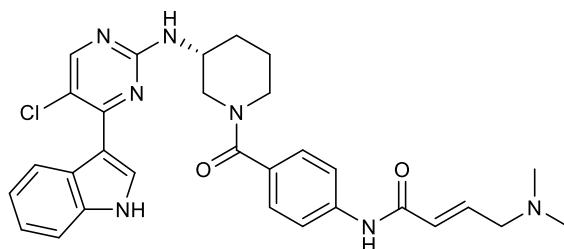


THZ531**Chemical Formula:** C₃₀H₃₂CIN₇O₂**Exact Mass:** 557.231

Category	Parameter	Description
Compound	Name	THZ531
	Citation	Nat Chem Biol. 2016; 12(10): 876–884
	Chemical descriptors	C1C=CN=C(N[C@H]2CN(C(C3=CC=C(C(NC/C=C/CN(C)C)=O)C=C3)=O)CCC2) N=C1C4=CNC5=C4C=CC=C5
	Chemical name	(R,E)-N-(4-((3-((5-chloro-4-(1H-indol-3-yl)pyrimidin-2-yl)amino)piperidine-1-carbonyl)phenyl)-4-(dimethylamino)but-2-enamide
	Entries in chemical databases	APEXBio https://www.apexbt.com/thz531.html?gclid=EAIalQobChMImqbOsqv41wlVII2zCh3wNgmWEAAYASAAEgJ13vD_BwE
In vitro profiling	Target (potency)	CDK12 (IC ₅₀ 158 biochemical assay) CDK13 ((IC ₅₀ 69 nM biochemical assay)
	Selectivity	Good
	Potential reactivity	Cysteine reactive
	SAR	
	Mechanism of inhibition	Irreversible
Cellular profiling	Structure of target-probe complex	5ACB
	Validation of cellular target	CTD-phosphorylation and competition pulldown with THZ1-biotin
	Validation of cellular specificity	
Pharmacodynamics		
Pharmacokinetics		

T_{1/2} 0.49h, AUC 276 (ng*hr/mL)

