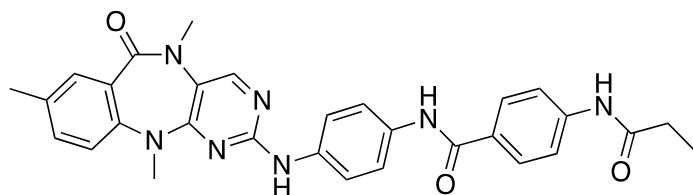


FMF-03-145-1



Chemical Formula: C₃₀H₂₉N₇O₃

Molecular Weight: 535.61

Category	Parameter	Description
Compound	Name	FMF-03-145-1
	Citation	Bioorg Med Chem Lett. 2017 Sep 15;27(18):4405-4408. https://doi.org/10.1016/j.bmcl.2017.08.016
	Chemical descriptors	CC1=CC2=C(N(C)C(N=C(NC3=CC=C(NC(C4=CC=C(NC(CC)=O)C=C4)=O)C=C3)N=C5)=C5N(C)C2=O)C=C1
	Chemical name	4-propionamido-N-(4-((5,8,11-trimethyl-6-oxo-6,11-dihydro-5H-benzo[e]pyrimido[5,4-b][1,4]diazepin-2-yl)amino)phenyl)benzamide
	Entries in chemical databases	
	Availability	
	Papers that use the compounds	
<i>In vitro</i> profiling	Target (potency)	Aurora A (IC ₅₀ = 52 nM +/- 3.0 nM)
	Target (potency)	Aurora B (IC ₅₀ = 41 nM +/- 4.5 nM)
	Target (potency)	Aurora C (IC ₅₀ = 53 nM +/- 2.4 nM)
	Selectivity	Exclusively on-target activity detected by KINOMEScan® at 1 μM compound concentration. PLK4 biochemical IC ₅₀ = 82 nM
	Potential reactivity	Cysteine reactive
	SAR	Described in paper
	Mechanism of inhibition	Reversible
	Structure of target-probe complex	5ONE
Cellular profiling	Validation of cellular target	Does dependent inhibition of pAurora A (Aurora A substrate) and pH3 S10 (Aurora B substrate) in HCT116 cells. Effects on cell cycle consistent with selective on-target inhibition.
	Validation of cellular specificity	
Pharmacodynamics		
Pharmacokinetics		

Synthetic scheme

See FMF-01-086-2
