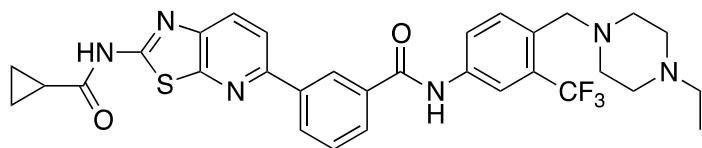


**HG-7-85-01**

Chemical Formula: C<sub>31</sub>H<sub>31</sub>F<sub>3</sub>N<sub>6</sub>O<sub>2</sub>S  
Exact Mass: 608.22

Category	Parameter	Description
Compound	Name	HG-7-85-01
	Citation	Blood, 2010, 115(21), 4206-4216, Mol Cancer Ther 2010 9,2468-2477
	Chemical descriptors	O=C(C1CC1)NC(S2)=NC3=C2N=C(C4=CC=CC(C(NC5=CC(C(F)(F)F)=C(CN6CCN(CC)C6)C=C5)=O)=C4)C=C3
	Chemical name	3-(2-(cyclopropanecarboxamido)thiazolo[5,4-b]pyridin-5-yl)-N-(4-((4-ethylpiperazin-1-yl)methyl)-3-(trifluoromethyl)phenyl)benzamide
<i>In vitro</i> profiling	Target (potency)	Ab1 IC <sub>50</sub> 28.2 nM, Ab1(T315I) IC <sub>50</sub> 36.6 nM, FLT3 IC <sub>50</sub> 12.2 nM, RET IC <sub>50</sub> 52.7 nM VEGFR2 IC <sub>50</sub> 60.7 nM, and PDGFRB IC <sub>50</sub> 680 nM (Invitrogen biochemical assay)
	Additional Target (potency)	EGFR, Tie-2, JAK1, Kit, Src, DDR1, and b-Raf,
	Selectivity	
	Potential reactivity	None to our knowledge
	SAR	
	Mechanism of inhibition	ATP-competitive type II inhibitor
	Structure of target-probe complex	
Cellular profiling	Validation of cellular target	Bcr-Abl IC <sub>50</sub> 60 nM, BCR-ABL-T315I IC <sub>50</sub> 140 nM, Kit-T670I IC <sub>50</sub> 250 nM, PDGFR $\alpha$ -T674M IC <sub>50</sub> 6.25 nM, and PDGFR $\alpha$ -T674I IC <sub>50</sub> 6.25 nM (Ba/F3 cell lines)
	Validation of cellular specificity	
Pharmacodynamics		
Pharmacokinetics		

T<sub>1/2</sub> mouse = 1.1 h rat = 5.8 hours, Cmax mouse = 106 ng/mL at 10 mg/kg , rat = 292 ng/mL and 2 mg/kg, CL mouse = 23 ml/min/kg, rat = 13 ml/min/kg, F = mouse = 5 %, rat = 19 %

