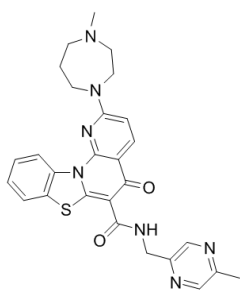


Product Name	: CX-5461	
Synonyms	: CX 5461; CX5461	
Cat No.	: M10488	
CAS Number	: 1138549-36-6	
Molecular Formula	: C27H27N7O2S	
Formula Weight	: 513.61	
Chemical Name	5H-Benzothiazolo[3,2-a][1,8]naphthyridine-6-carboxamide, 2-(hexahydro-4-methyl-1H-1,4-diazepin-1-yl)-N-[(5-methyl-2-pyrazinyl)methyl]-5-oxo-	
Description	CX-5461 is the first potent, selective, orally bioavailable inhibitor of RNA polymerase I, selectively inhibits rRNA synthesis in HCT-116 cells with IC50 of 142 nM, 200-fold selectivity over Pol II; inhibits the initiation stage of rRNA synthesis and induces both senescence and autophagy, but not apoptosis, through a p53-independent process in solid tumor cell lines; demonstrates in vivo antitumor activity against human solid tumors in murine xenograft models. Solid Tumors Phase 2 Clinical	
Pathway	: Cell Cycle/DNA Damage	
Target	: DNA/RNA Synthesis	
Receptor	: PolI-driven transcription of rRNA	
Solubility	: DMSO: < 5.3 mg/mL	
SMILES	<chem>O=C(C1=C(SC2=CC=CC=C2)N3C4=C(C=CC(N5CCN(C)CCC5)=N4)C1=O)NCC6=NC=C(C)N=C6</chem>	
Storage	: (-20°C)	
Stability	: ≥ 2 years	
Reference	:	

1. Haddach M, et al. ACS Med Chem Lett. 2012 May 8;3(7):602-6. | 2. Drygin D, et al. Cancer Res. 2011 Feb 15;71(4):1418-30. | 3. Bywater MJ, et al. Cancer Cell. 2012 Jul 10;22(1):51-65. | 4. Achiron A, et al. J Neuroimmunol. 2013 Oct 15;263(1-2):91-7.