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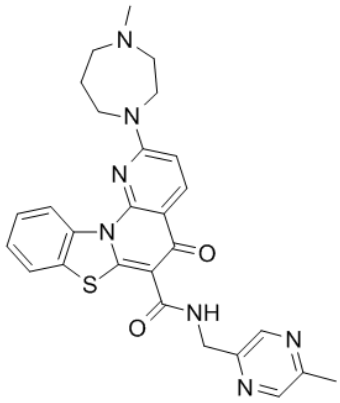
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	CX-5461
Cat. No.	:	PC-43493
CAS No.	:	1138549-36-6
Molecular Formula	:	$C_{27}H_{27}N_7O_2S$
Molecular Weight	:	
Target	:	DNA/RNA Synthesis
Solubility	:	DMSO: < 5.3 mg/mL



Biological Activity

Pidnarulex (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.
Pidnarulex (CX-5461) 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.
Pidnarulex (CX-5461) demonstrates in vivo antitumor activity against human solid tumors in murine xenograft models.

References

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Drygin D, et al. ***Cancer Res.*** 2011 Feb 15;71(4):1418-30.

Bywater MJ, et al. ***Cancer Cell.*** 2012 Jul 10;22(1):51-65.

Achiron A, et al. ***J Neuroimmunol.*** 2013 Oct 15;263(1-2):91-7.

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