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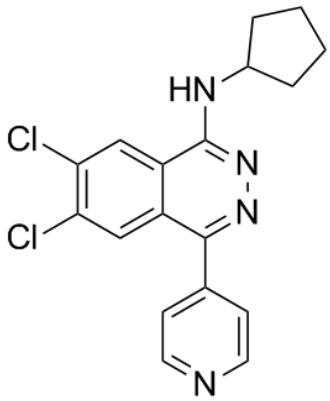
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	A-196
Cat. No.	:	PC-42081
CAS No.	:	1982372-88-2
Molecular Formula	:	$C_{18}H_{16}Cl_2N_4$
Molecular Weight	:	359.2524
Target	:	Histone Methyltransferase (HMTase)
Solubility	:	DMSO: ≥ 31 mg/mL



Biological Activity

A-196 is a potent, selective and substrate-competitive inhibitor of protein lysine methyltransferases (PKMTs) **SUV420H1** and **SUV420H2** with IC50 of 25 nM and 144 nM, respectively.
A-196 shows no activity for other PKMTs including PR-SET7, and PRMTs, DNMTases.
A-196 induces a global decrease in H4K20me2 and H4K20me3 (EC50= 262 and 370 nM, respectively) and a concomitant increase in H4K20me1 (EC50=735 nM) in U2OS cells, inhibits 53BP1 foci formation upon ionizing radiation and reduces NHEJ-mediated DNA-break repair but does not affect homology-directed repair.

References

Bromberg KD, et al. ***Nat Chem Biol.*** 2017 Mar;13(3):317-324.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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