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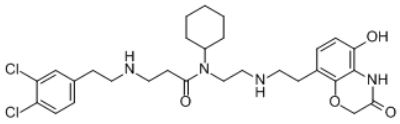
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	AZ505
Cat. No.	:	PC-44245
CAS No.	:	1035227-43-0
Molecular Formula	:	$C_{29}H_{38}Cl_2N_4O_4$
Molecular Weight	:	577.5424
Target	:	Histone Methyltransferase (HMTase)
Solubility	:	10 mM in DMSO



Biological Activity

AZ505 (AZ-505, AZ 505) is a potent and selective inhibitor of protein lysine methyltransferase **SMYD2** with IC50 of 0.12 uM, displays >600-fold against other histone methyltransferases, such as SMYD3 and EZH2.
AZ505 suppresses BMP2-induced SMAD1/5 phosphorylation, delays cyst growth in both early- and later-stage Pkd1 conditional knockout mouse models.
AZ505 also significantly reduced tumor growth in vivo in triple-negative breast cancer (TNBC) models.

References

Ferguson AD, et al. ***Structure.*** 2011 Sep 7;19(9):1262-73.

Gao S, et al. ***J Biol Chem.*** 2017 Jul 28;292(30):12702-12712.

Li LX, et al. ***J Clin Invest.*** 2017 Jun 30;127(7):2751-2764.

Li LX, et al. ***Cell Death Dis.*** 2018 Feb 27;9(3):326.

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