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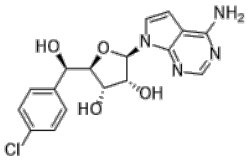
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	PRT543
Cat. No.	:	PC-21272
CAS No.	:	1989620-03-2
Molecular Formula	:	$C_{17}H_{17}ClN_4O_4$
Molecular Weight	:	376.80
Target	:	Histone Methyltransferase (HMTase)
Solubility	:	10 mM in DMSO



1. Carter J, et al. ***Cancer Res Commun***. 2023 Nov 6;3(11):2233-2243.
2. Jack Carter, et al. ***Cancer Res*** (2022) 82 (12_Supplement): 2159.

Biological Activity

PRT543 is a highly potent, selective and SAM cpmpetitive inhibitor of protein arginine methyltransferase 5 (**PRMT5**) with IC50 of 10.8 nM.
PRT543 induced significant dose-related tumor growth inhibition at well-tolerated doses in cell-line derived xenograft (CDX) models harboring the U2AF1S34F or RBM10LOF mutation.
PRT543 decreased expression of DNA damage repair-associated genes (e.g. BRCA1, RAD51AP1, FANCA, and FANCL) in U2AF1S34F or RBM10LOF mutant NSCLC cells.
Combination with PRT543 increased the effectiveness of specific chemotherapeutic agents in both in vitro and in vivo (CDX) models of U2AF1S34F and RBM10LOF NSCLC.

References