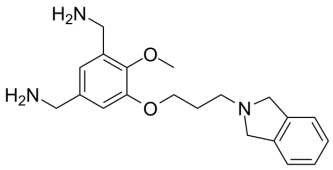
MS31

Cat. No.:	HY-125837
CAS No.:	2366264-12-0
Molecular Formula:	$C_{20}H_{27}N_3O_2$
Molecular Weight:	341.45
Target:	Epigenetic Reader Domain
Pathway:	Epigenetics
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	MS31 is a potent, highly affinity and selective fragment-like methyllysine reader protein spindlin 1 (SPIN1) inhibitor. MS31 potently inhibits the interactions between SPIN1 and H3K4me3 (IC_{50}=77 nM, AlphaLISA; 243 nM, FP). MS31 selectively binds Tudor domain II of SPIN1 (K_d=91 nM). MS31 potently inhibits binding of trimethyllysine-containing peptides to SPIN1. MS31 is not toxic to nontumorigenic cells[1].
IC_{50} & Target	IC50: 77 nM (SPIN1 by AlphaLISA), 243 nM (SPIN1 by FP)[1] Kd: 91 nM (SPIN1)[1]
In Vitro	MS31 potently inhibits binding of trimethyllysine-containing peptides to SPIN1, displays high binding affinity, is highly selective for SPIN1 over other epigenetic readers and writers, directly engages SPIN1 in cells, and is not toxic to nontumorigenic cells. MS31 selectively binds tudor domain II of SPIN1[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Xiong Y, et al. Discovery of a Potent and Selective Fragment-like Inhibitor of Methyllysine Reader Protein Spindlin 1(SPIN1). J Med Chem. 2019 Jul 24.

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