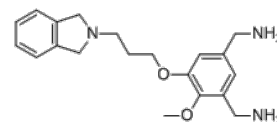


Product Name : SPIN1 inhibitor MS31
Cat. No. : PC-73027
CAS No. : 2366264-12-0
Molecular Formula : C₂₀H₂₇N₃O₂
Molecular Weight : 341.455
Target : Histone Methyltransferase (HMTase)
Solubility : 10 mM in DMSO



Biological Activity

SPIN1 inhibitor MS31 (MS31) is a potent, selective, and cell-active inhibitor of methyllysine reader protein **SPIN1** (spindlin 1) with IC₅₀ of 77 nM.

MS31 potently inhibited binding of trimethyllysine-containing peptides to SPIN1.

MS31 displayed high binding affinity, was highly selective for SPIN1 over other epigenetic readers and writers (G9a/GLP, inactive).

MS31 directly engaged SPIN1 in cells, and was not toxic to nontumorigenic cells.

MS31 selectively binds tudor domain II of SPIN1 (K_D=91 nM).

References

Xiong Y, et al. *J Med Chem.* 2019 Oct 24;62(20):8996-9007

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

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