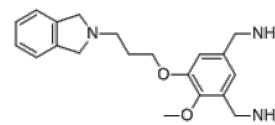


**Product Name** : SPIN1 inhibitor MS31  
**Cat. No.** : PC-73027  
**CAS No.** : 2366264-12-0  
**Molecular Formula** : C<sub>20</sub>H<sub>27</sub>N<sub>3</sub>O<sub>2</sub>  
**Molecular Weight** : 341.455  
**Target** : Histone Methyltransferase (HMTase)  
**Solubility** : 10 mM in DMSO



### Biological Activity

SPIN1 inhibitor MS31 (MS31) is a potent, selective, and cell-active inhibitor of methyllysine reader protein **SPIN1** (spindlin 1) with IC<sub>50</sub> 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<sub>D</sub>=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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