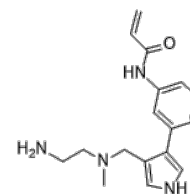


Product Name : MS117
Cat. No. : PC-23078
CAS No. : 2702280-86-0
Molecular Formula : C₁₇H₂₂N₄O
Molecular Weight : 298.39
Target : Histone Methyltransferase (HMTase)
Solubility : 10 mM in DMSO



CAS: 2702280-86-0

Biological Activity

MS117 is a potent, selective and cell-active covalent **PRMT6** inhibitor with K_i of 16 nM and IC₅₀ of 18 nM. MS117 does not covalently modify other closely related PRMTs and was selective for PRMT6 over other methyltransferases. MS117 covalently targets a cysteine residue (Cys50) of PRMT6. MS117 potently and concentration-dependently reduces cellular levels of H3R2 asymmetric dimethylation (H3R2me2a, IC₅₀=1.3 μM) against ectopically expressed PRMT6 in HEK293 cells. MS117 is not cytotoxic in MCF-7, PNT2, and HEK293T cells.

References

Shen Y, et al. *J Med Chem.* 2020 May 28;63(10):5477-5487.

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

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