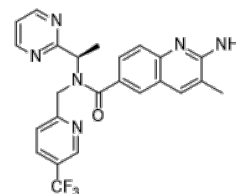


Product Name : AM-9747
Cat. No. : PC-22809
CAS No. : 2691869-82-4
Molecular Formula : C₂₄H₂₁F₃N₆O
Molecular Weight : 466.47
Target : Histone Methyltransferase (HMTase)
Solubility : 10 mM in DMSO



CAS: 2691869-82-4

Biological Activity

AM-9747 (AM9747) is a potent, selective and MTA cooperative PRMT5 inhibitor, inhibits symmetrical dimethyl arginine methylation (SDMA) levels in HCT116 MTAP-deleted cells with IC₅₀ of 2 nM.

AM-9747 selectively inhibited the proliferation of HCT116 MTAP-deleted cells (IC₅₀ = 0.027 μM) compared to HCT116 MTAP-WT cells (IC₅₀ = 0.63 μM).

AM-9747 inhibited the proliferation of most MTAP-deleted cells, with minimal effects on MTAP-WT cells.

AM-9747 induces DNA damage, as illustrated by increased phosphorylation of H2AX, and an arrest in the G₂/M phase of the cell cycle in MTAP-deleted cells.

AM-9747 selectively inhibits SDMA and tumor growth in HCT116 MTAP-deleted tumor xenografts, compared to HCT116 MTAP-WT xenografts.

References

Brian Belmontes, et al. Cancer Res (2022) 82 (12_Supplement): 1807.

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

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