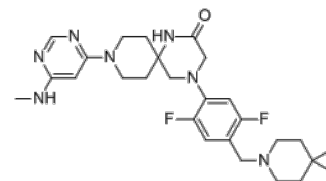


Product Name : METTL3 inhibitor UZH2
Cat. No. : PC-49679
CAS No. : 2756566-45-5
Molecular Formula : C₂₇H₃₇F₂N₇O
Molecular Weight : 513.64
Target : Histone Methyltransferase (HMTase)
Solubility : 10 mM in DMSO



Biological Activity

METTL3 inhibitor UZH2 is a potent, selective and cell-permeable RNA methyltransferase **METTL3** inhibitor with IC₅₀ of 5 nM in TR-FRET assays.

UZH2 displays no affinity against METTL16 and METTL1 in a thermal shift assay at 100 μM.

UZH2 dose-dependently decreased MOLM-13 and PC-3 cell growth following 72 h of incubation, with GI₅₀ values of 12 and 70 μM, respectively.

UZH2 dose-dependently stabilize METTL3, with EC₅₀ values of 2 and 0.85 μM in HEK293T cells and AML MOLM-13 cells through the InCELL Pulse assay and CETSA, respectively.

UZH2 reduced the m⁶A/A level of polyadenylated RNA in MOLM-13 (acute myeloid leukemia) and PC-3 (prostate cancer) cell lines.

References

Aymeric Dolbois, et al. *J Med Chem.* 2021 Sep 9;64(17):12738-12760.

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

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