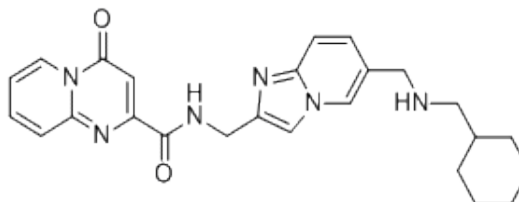


Data Sheet

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Global Supplier of Chemical Probes, Inhibitors & Agonists

Product Name : STM2457
Cat.No. : URK-V965
CAS No. : 2499663-01-1
Molecular Formula : $C_{25}H_{28}N_6O_2$
Molecular Weight : 444.539
Target : DNMT
Solubility :



Biological Activity

STM2457 (STM-2457) is a highly potent, selective first-in-class catalytic inhibitor of METTL3 with IC₅₀ of 16.9 nM, binds to the METTL3-METTL14 with K_d of 1.4 nM; Treatment of STM2457 leads to reduced AML growth and an increase in differentiation and apoptosis. STM2457 reduces m6A levels on known leukaemogenic mRNAs and decrease in their expression consistent with a translational defect. STM2457 impaired engraftment and prolonged survival in various mouse models of AML, specifically targeting key stem cell subpopulations of AML.

References

1. Yankova E, et al. Nature. 2021 May;593(7860):597-601.
2. Xu QC, et al. Oncogene. 2022 Jan 29. doi: 10.1038/s41388-022-02185-1.

Note: All products of Ureiko are only used for scientific research or drug certificate declaration, we do not provide products and services for any personal use!

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

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