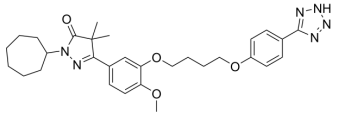
DNMT3A-IN-3

Cat. No.:	HY-158165
Molecular Formula:	$C_{30}H_{38}N_6O_4$
Molecular Weight:	546.66
Target:	DNA Methyltransferase
Pathway:	Epigenetics
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	DNMT3A-IN-3 is an allosteric DNA methyltransferase 3A (DNMT3A) inhibitor. DNMT3A-IN-3 binds and disrupt protein-protein interactions (PPIs) at the DNMT3A tetramer interface[1].
In Vitro	DNMT3A-IN-3 (compound 1) disrupts DNMT3A_WT homo- or heterotetramers but not interactions with histone H3 tails[1]. DNMT3A-IN-3 (compound 1) shows a K_i of 3.70-7.06 μM with AdoMet[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Jonathan E SandovalA, et al. First-in-Class Allosteric Inhibitors of DNMT3A Disrupt Protein-Protein Interactions and Induce Acute Myeloid Leukemia Cell Differentiation. J Med Chem. 2022 Aug 11;65(15):10554-10566.

[2]. Sunzeyu Huang, et al. A novel class of selective non-nucleoside inhibitors of human DNA methyltransferase 3A. Bioorg Med Chem Lett. 2021 May 15:40:127908.

Caution: Product has not been fully validated for medical applications. For research use only.

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