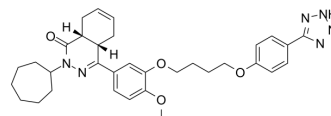


DNMT3A-IN-2

Cat. No.:	HY-158164
Molecular Formula:	C ₃₃ H ₄₀ N ₆ O ₄
Molecular Weight:	584.71
Target:	DNA Methyltransferase
Pathway:	Epigenetics
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	DNMT3A-IN-2 (compound 1a) is a hydrophthalazinone-based inhibitor of DNA methyltransferase 3A (DNMT3A) (IC ₅₀ : 14 μM) against S-adenosylmethionine (SAM) has a K _i of 9.16-18.85 μM. ^{[14][1]}
IC ₅₀ & Target	DNMT3A 14 μM (IC ₅₀)
In Vivo	DNMT3A-IN-2 significantly reduces DNMT3A activity and demonstrates lower cytotoxicity in a mouse model of acute myeloid leukemia ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Hernandez I, et al. Structural Investigations of Phthalazinone Derivatives as Allosteric Inhibitors of Human DNA Methyltransferase 3A[J]. ACS Medicinal Chemistry Letters, 2024.

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

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