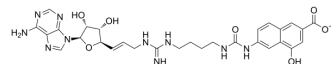


PRMT4-IN-1

Cat. No.:	HY-146810
Molecular Formula:	C ₃₀ H ₃₆ N ₁₀ O ₇
Molecular Weight:	648.67
Target:	Histone Methyltransferase
Pathway:	Epigenetics
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	PRMT4-IN-1 is a selective inhibitor of PRMT4 (IC ₅₀ =3.2 nM). PRMT4-IN-1 inhibits MCF7 relative viability ^[1] .			
IC₅₀ & Target	PRMT1 0.835 μM (IC ₅₀)	PRMT3 4.05 μM (IC ₅₀)	PRMT4 3.2 nM (IC ₅₀)	PRMT5 1.46 μM (IC ₅₀)
	PRMT6 1.75 μM (IC ₅₀)	PRMT7 1.68 μM (IC ₅₀)	PRMT8 1.95 μM (IC ₅₀)	
In Vitro	PRMT4-IN-1 (compound 12h) (10 μM, 50 μM, 100 μM; 24 h, 72 h) shows no effect on reduction the number of metabolically active cells ^[1] . PRMT4-IN-1 (50 μM; 2-8 d) decreases relative cell viability time-dependently in MCF7 cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

REFERENCES

[1]. Iannelli G, et al. Turning Nonselective Inhibitors of Type I Protein Arginine Methyltransferases into Potent and Selective Inhibitors of Protein Arginine Methyltransferase 4 through a Deconstruction-Reconstruction and Fragment-Growing Approach. *J Med Chem.* 2022 Sep 8;65(17):11574-11606.

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

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