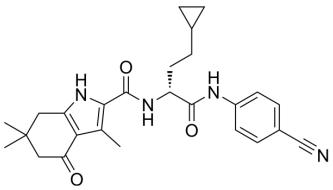
RK-0133114

Cat. No.:	HY-152775A
Molecular Formula:	$C_{26}H_{30}N_4O_3$
Molecular Weight:	446.54
Target:	Histone Methyltransferase
Pathway:	Epigenetics
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	RK-0133114 is a G9a inhibitor and a R-enantiomer of RK-701 (HY-152775). RK-0133114 inhibits G9a with an IC_{50} value of 3.7 μM. RK-0133114 can be used for the research of sickle cell disease (SCD)[1].
In Vitro	RK-0133114 shows no effect on the level of H3K9me2 in human umbilical cord blood derived erythroid progenitor 2 (HUDEP-2) cells and failed to increase fetal globins (HbF) in HUDEP-2 cells[1]. RK-0133114 (0.1 nM-100 μM) inhibits G9a with an IC_{50} value of 3.7 μM[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Takase S, et al. A specific G9a inhibitor unveils BGLT3 lncRNA as a universal mediator of chemically induced fetal globin gene expression. Nat Commun. 2023 Jan 12;14(1):23.

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