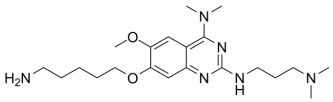
E67-2

Cat. No.:	HY-122746
CAS No.:	1364914-62-4
Molecular Formula:	$C_{21}H_{36}N_6O_2$
Molecular Weight:	404.55
Target:	Histone Methyltransferase
Pathway:	Epigenetics
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	E67-2, as the E67 derivative, is a low-toxicity, selective KIAA1718 Jumonji domain inhibitor with an IC_{50} value of 3.4 μM. E67-2 selectively inhibits histone H3 lysine 9 (H3K9) Jumonji demethylase as well as histone H3 lysine 4 (H3K4) demethylase[1].
IC_{50} & Target	IC50: 3.4 μM (H3K9 Jumonji demethylase)[1]
In Vitro	E67-2 (1~100 μM; 5 minutes) reduces inhibitory effect against GLP by a factor of approximately 1500, resulting in an IC_{50} of 75 μM. E67-2 has much reduced inhibition on PHF8 on the doubly methylated H3(1-24)K4me3K9me2 peptide substrate. E67-2 (100~100000 nM; 24 hours; fibroblasts) has significantly reduced cell toxicity [1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Upadhyay AK, et al. An analog of BIX-01294 selectively inhibits a family of histone H3 lysine 9 Jumonji demethylases. J Mol Biol. 2012;416(3):319-327.

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