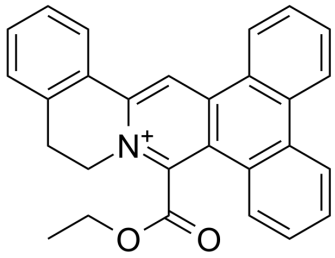
DC_C66

Cat. No.:	HY-100855
CAS No.:	108181-00-6
Molecular Formula:	$C_{28}H_{22}NO_2^+$
Molecular Weight:	404.48
Target:	Histone Methyltransferase
Pathway:	Epigenetics
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	DC_C66 is a cell-permeable, selective coactivator associated arginine methyltransferase 1 (CARM1) inhibitor with an IC_{50} of 1.8 μM. DC_C66 has a good selectivity for CARM1 against PRMT1 (IC_{50}=21 μM), PRMT6 (IC_{50}= 47μM), and PRMT5[1].
IC_{50} & Target	IC50: 1.8 μM (CARM1)[1]
In Vitro	DC_C66 (6.25-100 μM; 24-72 hours) exhibits antiproliferation activity in several CARM1-associated cancer cell lines[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Proliferation Assay[1]

Cell Line:	HELA, K562, MCF7 cells
Concentration:	6.25, 12.5, 25, 50, 100 μM
Incubation Time:	24, 48, 72 hours
Result:	Inhibits proliferation of cancer cells in a time-dependent and dose-dependent manner in HELA, K562, and MCF7 cells.

REFERENCES

[1]. Ye F, et al. Identification of Novel Inhibitors against Coactivator Associated Arginine Methyltransferase 1 Based on Virtual Screening and Biological Assays. Biomed Res Int. 2016;2016:7086390.

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