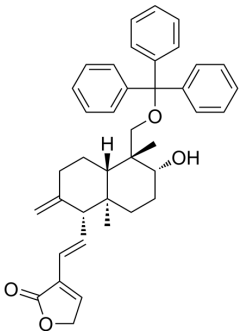
ZIKV-IN-2

Cat. No.:	HY-151445
CAS No.:	910582-16-0
Molecular Formula:	$C_{39}H_{42}O_4$
Molecular Weight:	574.75
Target:	DNA Methyltransferase; Virus Protease; Flaviviridae
Pathway:	Epigenetics; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	ZIKV-IN-2 (compound 3a) is a potent ZIKV NS5 methyl transferase (MTase) inhibitor with an IC_{50} value of 38.86 μM. ZIKV-IN-2 inhibits ZIKV replication and infection. ZIKV-IN-2 can be used in research of Zika virus (ZIKV)[1].
IC_{50} & Target	IC50: 38.86 μM (MTase)[1]
In Vitro	ZIKV-IN-2 (compound 3a; 0.08-50 μM) inhibits the expression of ZIKV E protein with an EC_{50} value of 6.17 μM and inhibits ZIKV replication and infection[1]. ZIKV-IN-2 (0.08-50 μM; 96 h) has low cytotoxicity in Vero, Huh7 and A549 cells[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Viability Assay[1]

Cell Line:	Vero, Huh7 and A549 cells
Concentration:	0.08, 0.4, 2, 10, and 50 μM
Incubation Time:	96 hours
Result:	Exhibited low cytotoxicities to Vero cells, Huh7 cells and A549 cells with CC_{50}>200 μM to all three cell lines.

REFERENCES

[1]. Qian W, et al. Discovery of dehydroandrographolide derivatives with C19 hindered ether as potent anti-ZIKV agents with inhibitory activities to MTase of ZIKV NS5. Eur J Med Chem. 2022 Aug 27;243:114710.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA