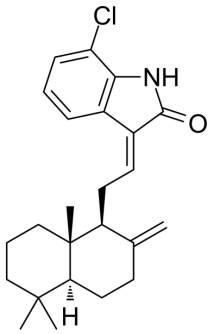
CHIKV-IN-3

Cat. No.:	HY-144334
Molecular Formula:	$C_{24}H_{30}ClNO$
Molecular Weight:	383.95
Target:	DNA/RNA Synthesis
Pathway:	Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	CHIKV-IN-3 is a potent against two low-passage CHIKV inhibitor with EC_{50} values of 1.55 and 0.14 μM for CHIKV-122508 and CHIKV-6708, respectively. CHIKV-IN-3 acts on the host cells to interfere with the viral replication. CHIKV-IN-3 displays minimal cytotoxic liability(CC_{50} > 100 μM). Prophylactic effect[1].
IC_{50} & Target	EC_{50}: 1.55 μM (CHIKV-122508); 0.14 μM (CHIKV-6708)[1]
In Vitro	CHIKV-IN-3 (compound (E)-42; HeLa CCL2 cells; 0.1-100 μM; 24 hours) inhibits the Chikungunya virus (CHIKV) replication with an EC_{50} of 1.55 μM and demonstrates low cytotoxicity (CC_{50}=129.6 μM)[1].CHIKV-IN-3 (HeLa CCL2 cells; 20, 40, 80 μM; 24 hours) shows the highest degree of inhibition with approximately 3.9-log reduction in viral titre (ca. 99.99% inhibition) at 80 μM[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Cytotoxicity Assay[1]

Cell Line:	HeLa CCL2 cells, HeLa CCL2 cells infected with CHIKV-122508
Concentration:	0.1-100 μM
Incubation Time:	24 hours
Result:	Inhibited the CHIKV replication with an EC_{50} of 1.55 μM anddemonstrated low cytotoxicity(CC_{50}=129.6 μM)

REFERENCES

[1]. Tran QTN, et al. Discovery and development of labdane-oxindole hybrids as small-molecule inhibitors against chikungunya virus infection. Eur J Med Chem. 2022; 230:114110.

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

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