SARS-CoV-2-IN-26

Cat. No.: HY-151269

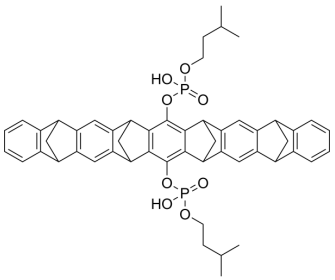
Molecular Formula: $C_{52}H_{52}O_8P_2$

Molecular Weight: 866.91

Target: SARS-CoV

Pathway: Anti-infection

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	SARS-CoV-2-IN-23 is a two-armed diphosphate ester and medium length molecular tweezers. SARS-CoV-2-IN-23 exhibits antiviral activity with IC_{50}s of 8.2 μM and 2.6 μM against SARS-CoV-2 activity and the spike pseudoparticle transduction, respectively. SARS-CoV-2-IN-23 induces liposomal membrane disruption with an EC_{50} value of 4.4 μM[1].
IC_{50} & Target	IC50: 4.4 μM (viral liposome, SARS-CoV-2)[1]
In Vitro	SARS-CoV-2-IN-23 (CP002) inhibits SARS-CoV-2 (IC_{50}=2.6 μM) with a low cytotoxicity (Caco2 cells, CC_{50}=97 μM)[1]. SARS-CoV-2-IN-23 (0-15 μM; 2 h) inactivate SARS-CoV-2, shows inhibition against infection with an IC_{50} value of 8.2 μM[1]. SARS-CoV-2-IN-23 suppresses varies enveloped viruses activity with IC_{50}s of 38.4 μM (influenza A virus, IAV), 2.8 μM (measles virus, MeV), 1.1 μM (herpes simplex viruses, HSV-1), and human immunodeficiency virus type 1 (HIV-1), respectively[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay[1]

Cell Line:	Caco2 cells exposed with SARS-CoV-2 (2 h, 37 ⊠)
Concentration:	0, 0.23, 0.93, 3.75, 15 μM
Incubation Time:	2 hours; determined infection rates on day 2
Result:	Inhibited SARS-CoV-2 infection activity to Caco2 cells.

REFERENCES

[1]. Tatjana Weil, et al. Advanced Molecular Tweezers with Lipid Anchors against SARS-CoV-2 and Other Respiratory Viruses. JACS Au 2022, XXXX, XXX, XXX-XXX.

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