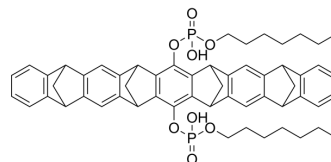


SARS-CoV-2-IN-28

Cat. No.:	HY-151274
Molecular Formula:	C ₅₆ H ₆₀ O ₈ P ₂
Molecular Weight:	923.02
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-28 is a two-armed diphosphate ester with C7 alkyl and molecular tweezers with extended length. SARS-CoV-2-IN-28 exhibits antiviral activity with IC ₅₀ s of 0.4 μM and 1.0 μM against SARS-CoV-2 activity and the spike pseudoparticle transduction, respectively. SARS-CoV-2-IN-28 induces liposomal membrane disruption with an EC ₅₀ value of 4.4 μM ^[1] .								
IC₅₀ & Target	IC ₅₀ : 4.4 μM (viral liposome, SARS-CoV-2) ^[1]								
In Vitro	<p>SARS-CoV-2-IN-28 (CP020) inhibits SARS-CoV-2 (IC₅₀=1.0 μM) with few cytotoxicity (Caco2 cells, CC₅₀=213.1 μM)^[1]. SARS-CoV-2-IN-28 (0-15 μM; 2 h) inactivate SARS-CoV-2, shows inhibition against infection with an IC₅₀ value of 0.4 μM^[1]. SARS-CoV-2-IN-28 suppresses various enveloped viruses activity with IC₅₀s of 7.1 μM (respiratory syncytial virus, RSV), 24.5 μM (influenza A virus, IAV), 4.0 μM (measles virus, MeV), 1.6 μM (herpes simplex viruses, HSV-1), respectively^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Viability Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>Caco2 cells exposed with SARS-CoV-2 (2 h, 37 °C)</td> </tr> <tr> <td>Concentration:</td> <td>0, 0.23, 0.93, 3.75, 15 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>2 hours; determined infection rates on day 2</td> </tr> <tr> <td>Result:</td> <td>Inhibited SARS-CoV-2 infection activity to Caco2 cells.</td> </tr> </table>	Cell Line:	Caco2 cells exposed with SARS-CoV-2 (2 h, 37 °C)	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.
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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.

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

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