## SARS-CoV-2-IN-27

Cat. No.:	HY-151271	
Molecular Formula:	$C_{54}H_{56}O_{8}P_{2}$	
Molecular Weight:	894.97	
Target:	SARS-CoV	OH CH
Pathway:	Anti-infection	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	P= O

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Proteins

BIOLOGICAL ACT			
Description	SARS-CoV-2-IN-27 is a two-armed diphosphate ester with C6 alkyl and molecular tweezers with extended length. SARS-CoV- 2-IN-27 exhibits antiviral activity with IC <sub>50</sub> s of 1.0 μM and 1.7 μM against SARS-CoV-2 activity and the spike pseudoparticle transduction, respectively. SARS-CoV-2-IN-27 induces liposomal membrane disruption with an EC <sub>50</sub> value of 6.5 μM <sup>[1]</sup> .		
IC <sub>50</sub> & Target	IC50: 6.5 μM (viral liposo	ome, SARS-CoV-2) <sup>[1]</sup>	
In Vitro	SARS-CoV-2-IN-27 (0-15 SARS-CoV-2-IN-27 supp M (influenza A virus, IAV	CoV-2-IN-27 (CP019) inhibits SARS-CoV-2 (IC <sub>50</sub> =1.7 μM) with few cytotoxicity (Caco2 cells, CC <sub>50</sub> =208 μM) <sup>[1]</sup> . CoV-2-IN-27 (0-15 μM; 2 h) inactivate SARS-CoV-2, shows inhibition against infection with an IC <sub>50</sub> value of 1.0 μM <sup>[1]</sup> CoV-2-IN-27 suppresses varies enveloped viruses activity with IC <sub>50</sub> s of 7.4 μM (respiratory syncytial virus, RSV), 112 Lenza A virus, IAV), 4.6 μM (measles virus, MeV), 1.8 μM (herpes simplex viruses, HSV-1), respectively <sup>[1]</sup> . as not independently confirmed the accuracy of these methods. They are for reference only.	
	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.	
In Vivo	syncytial virus (RSV) and	19) (150 μM, 50 μL; intranasal route; for 2-5 d) shows antiviral activity in vivo against respiratory d SARS-CoV-2 in BALB/cJ mice or K18-hACE2 mice, respectively <sup>[1]</sup> . ently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	Respiratory syncytial virus (RSV) infection of BALB/cJ mice and SARS-CoV-2 infection of K18-hACE2 mice $^{[1]}$	
	Dosage:	150 μM, 50 μL	
	Administration:	Intranasal route; single dose; sacrificed BALB/cJ mice on day 5; treated K18-hACE2 mice once again after 7 h and sacrificed mice on day 2	

## Product Data Sheet



Result:	Reduced viral load in the lungs of SARS-CoV-2-infected mice.
	Completely abolished SARS-CoV-2 infection of all tested mice without changing bod
	weight of mice.

## 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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