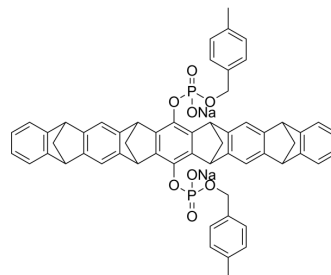


## SARS-CoV-2-IN-29 disodium

<b>Cat. No.:</b>	HY-151276A
<b>Molecular Formula:</b>	C <sub>58</sub> H <sub>46</sub> Na <sub>2</sub> O <sub>8</sub> P <sub>2</sub>
<b>Molecular Weight:</b>	978.91
<b>Target:</b>	SARS-CoV
<b>Pathway:</b>	Anti-infection
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	SARS-CoV-2-IN-29 disodium is a two-armed diphosphate ester with benzene system and molecular tweezers. SARS-CoV-2-IN-29 disodium exhibits antiviral activity with IC <sub>50</sub> s of 1.5 μM and 1.6 μM against SARS-CoV-2 activity and the spike pseudoparticle transduction, respectively. SARS-CoV-2-IN-29 disodium induces liposomal membrane disruption with an EC <sub>50</sub> value of 3.0 μM <sup>[1]</sup> .								
<b>IC<sub>50</sub> &amp; Target</b>	IC <sub>50</sub> : 3.0 μM (viral liposome, SARS-CoV-2) <sup>[1]</sup>								
<b>In Vitro</b>	<p>SARS-CoV-2-IN-29 (CP024) disodium inhibits SARS-CoV-2 (IC<sub>50</sub>=1.6 μM) with low cytotoxicity (Caco2 cells, CC<sub>50</sub>=77.4 μM)<sup>[1]</sup>. SARS-CoV-2-IN-29 disodium (0-15 μM; 2 h) inactivate SARS-CoV-2, shows inhibition against infection with an IC<sub>50</sub> value of 1.5 μM<sup>[1]</sup>.</p> <p>SARS-CoV-2-IN-29 disodium suppresses various enveloped viruses activity with IC<sub>50</sub>s of 2.1 μM (influenza A virus, IAV), 2.1 μM (measles virus, MeV), 1.8 μM (herpes simplex viruses, HSV-1), respectively<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Viability Assay<sup>[1]</sup></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.

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

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