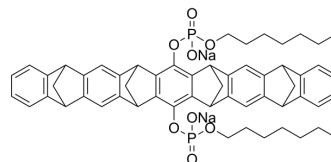


SARS-CoV-2-IN-28 disodium

| | |
|---------------------------|---|
| Cat. No.: | HY-151274A |
| Molecular Formula: | C ₅₆ H ₅₈ Na ₂ O ₈ P ₂ |
| Molecular Weight: | 966.98 |
| 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 disodium is a two-armed diphosphate ester with C7 alkyl and molecular tweezers with extended length. SARS-CoV-2-IN-28 disodium 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 disodium 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) disodium inhibits SARS-CoV-2 (IC₅₀=1.0 μM) with few cytotoxicity (Caco2 cells, CC₅₀=213.1 μM)^[1]. SARS-CoV-2-IN-28 disodium (0-15 μM; 2 h) inactivate SARS-CoV-2, shows inhibition against infection with an IC₅₀ value of 0.4 μM^[1].</p> <p>SARS-CoV-2-IN-28 disodium suppresses varies 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. |
| 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. | | | | | | | | |

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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