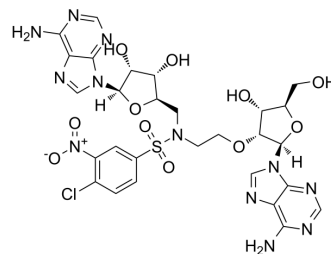


SARS-CoV-IN-4

Cat. No.:	HY-143467
CAS No.:	2445585-37-3
Molecular Formula:	C ₂₈ H ₃₁ ClN ₁₂ O ₁₁ S
Molecular Weight:	779.14
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-IN-4 (compound 13) is a potent and specific inhibitor of SARS-CoV nsp14 N7-methyltransferase, with an IC ₅₀ of 0.6 μM (SARS-CoV nsp14) ^[1] .
IC₅₀ & Target	IC ₅₀ : 0.6 ± 0.1 μM (SARS-CoV nsp14), 247.5 ± 14.9 μM (hRNMT) ^[1]
In Vitro	<p>SARS-CoV-IN-4 (compound 13) shows inhibitory activity on N7-MTases, with inhibition at 50 μM of 97.2 ± 2.7% (SARS-CoV nsp14), and 33.9 ± 3.3% (hRNMT), respectively^[1].</p> <p>SARS-CoV-IN-4 stabilizes SARS-CoV nsp14 against thermal denaturation with a ΔT_m +10.8 °C and exhibits notable binding affinity (apparent K_D 1.3 ± 0.87 μM)^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

[1]. Ahmed-Belkacem R, et al. Synthesis of adenine dinucleosides SAM analogs as specific inhibitors of SARS-CoV nsp14 RNA cap guanine-N7-methyltransferase. Eur J Med Chem. 2020 Sep 1;201:112557.

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

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