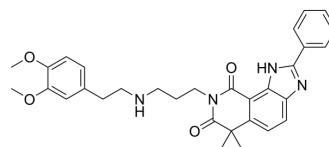


RSV L-protein-IN-3

Cat. No.:	HY-154966
CAS No.:	868860-35-9
Molecular Formula:	C ₃₁ H ₃₄ N ₄ O ₄
Molecular Weight:	526.63
Target:	RSV
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	RSV L-protein-IN-3 is a wild-type RSV polymerase inhibitor with an IC ₅₀ value of 10.4 μM and an EC ₅₀ value of 2.1 μM (against RSV). RSV L-protein-IN-3 has lesser cytotoxicity than the clinical agent, Ribavirin (HY-B0434) ^[1] .								
IC₅₀ & Target	IC ₅₀ : 10.4 μM (RSV) ^[1]								
In Vitro	<p>RSV L-protein-IN-3 (compound B) has certain cytotoxicity in HEp-2 cells, the CC₅₀ value is 16 μM^[1]. RSV L-protein-IN-3 inhibits transcription of RSV in infected HEp-2 cell with an EC₅₀ value of 2.1 μM^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Antiviral Assay</p> <table border="1"> <tr> <td>Cell Line:</td> <td>HEp-2 cell ^[1]</td> </tr> <tr> <td>Concentration:</td> <td>Infected with RSV Long at a multiplicity of infection(MOI) of 0.1 and incubated for 48 h in the presence or absence of serial dilutions of RSV L-protein-IN-3</td> </tr> <tr> <td>Incubation Time:</td> <td>48 h</td> </tr> <tr> <td>Result:</td> <td>Inhibited transcription of the virus.</td> </tr> </table>	Cell Line:	HEp-2 cell ^[1]	Concentration:	Infected with RSV Long at a multiplicity of infection(MOI) of 0.1 and incubated for 48 h in the presence or absence of serial dilutions of RSV L-protein-IN-3	Incubation Time:	48 h	Result:	Inhibited transcription of the virus.
Cell Line:	HEp-2 cell ^[1]								
Concentration:	Infected with RSV Long at a multiplicity of infection(MOI) of 0.1 and incubated for 48 h in the presence or absence of serial dilutions of RSV L-protein-IN-3								
Incubation Time:	48 h								
Result:	Inhibited transcription of the virus.								

REFERENCES

- [1]. Michel Liuzzi, et al. Inhibitors of respiratory syncytial virus replication target cotranscriptional mRNA guanylylation by viral RNA-dependent RNA polymerase. *J Virol.* 2005, 79(20).
- [2]. Michael T. Rudd, et al. Discovery of MK-8768, a Potent and Selective mGluR2 Negative Allosteric Modulator. *ACS Med. Chem. Lett.* 2023, 14(8).
- [3]. Sean M Smith, et al. The novel phosphodiesterase 10A inhibitor THPP-1 has antipsychotic-like effects in rat and improves cognition in rat and rhesus monkey. *Neuropharmacology*, 2013 Jan;64:215-23.
- [4]. Sean M Smith, et al. The novel phosphodiesterase 10A inhibitor THPP-1 has antipsychotic-like effects in rat and improves cognition in rat and rhesus monkey. *Neuropharmacology*, 2013 Jan;64:215-23.
- [5]. Sean M Smith, et al. The novel phosphodiesterase 10A inhibitor THPP-1 has antipsychotic-like effects in rat and improves cognition in rat and rhesus monkey. *Neuropharmacology*, 2013 Jan;64:215-23.

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

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