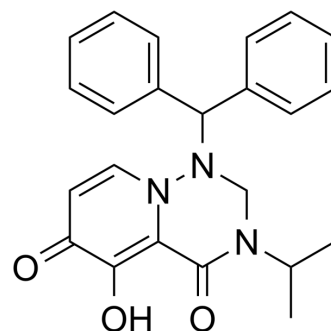


Cap-dependent endonuclease-IN-26

Cat. No.:	HY-143781
CAS No.:	1370238-26-8
Molecular Formula:	C ₂₃ H ₂₃ N ₃ O ₃
Molecular Weight:	389.45
Target:	Influenza Virus
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Cap-dependent endonuclease-IN-26 is a cap-dependent endonuclease (CEN) inhibitor with an IC ₅₀ of 286 nM. Cap-dependent endonuclease-IN-26 shows antiviral activity against many influenza A and B strains ^[1] .
In Vitro	Cap-dependent endonuclease-IN-26 (compound 2v) exhibits broad antiviral spectrum. Cap-dependent endonuclease-IN-26 shows antiviral activity against the H1N1 type, including the reverse genetic strain (rgA/WSN/33), oseltamivir-resistant strain (rgA/WSN/33-NA/H274Y), clinically isolated strain (A/PR/8/34), H3N2 A/Victoria/3/75, H3N2 A/HongKong/8/68, influenza B/Hong Kong/5/72, and influenza B/Maryland/1/59 with EC ₅₀ values 165.1 nM, 80.4 nM, 183.0 nM, 828.8 nM, 301.5 nM, 124.3 nM, and 176.0 nM, respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	In rats, Cap-dependent endonuclease-IN-26 (compound 2v) exhibits reasonable in vivo clearance with 10.9 mL/min/kg ^[1] . In a mouse influenza B (B/Maryland/1/59) model, Cap-dependent endonuclease-IN-26 (compound 2v; intravenous administration; 0.08-10 mg/kg; q.d.; 1 day) shows dose-dependent efficacy in an immediate treatment model ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Masayoshi Miyagawa, et al. Synthesis and SAR Study of Carbamoyl Pyridone Bicycle Derivatives as Potent Inhibitors of Influenza Cap-dependent Endonuclease. J Med Chem. 2019 Sep 12;62(17):8101-8114.

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

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