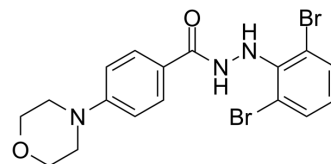


RdRP-IN-4

Cat. No.:	HY-144668
Molecular Formula:	C ₁₇ H ₁₇ Br ₂ N ₃ O ₂
Molecular Weight:	455.14
Target:	Influenza Virus
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

RdRP-IN-4 (compound 11q), an aryl benzoyl hydrazide analog, is an orally active influenza A virus RNA-dependent RNA polymerase (RdRp) inhibitor by interacting with the PB1 subunit. RdRP-IN-4 exhibits potent inhibitory activity against the avian H5N1 flu strain with an EC₅₀ of 18 nM in MDCK cells. RdRP-IN-4 displays excellent potency against the the H1N1 (A/PR/8/34) Flu A strain and Flu B strain (B/Lee/1940) with EC₅₀ values of 53 nM and 20 nM, respectively. RdRP-IN-4 significantly inhibits the expression level of viral nucleoprotein (NP) in a dose-dependent manner. RdRP-IN-4 exhibits significant antiviral activity in infected mice^[1].

REFERENCES

[1]. Xinjin Liu, et al. Discovery of Aryl Benzoyl Hydrazide Derivatives as Novel Potent Broad-Spectrum Inhibitors of Influenza A Virus RNA-Dependent RNA Polymerase (RdRp). *J Med Chem.* 2022 Mar 10;65(5):3814-3832.

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

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