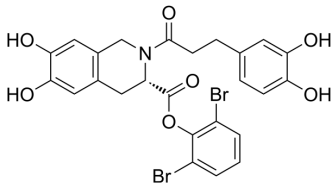
PAN endonuclease-IN-2

Cat. No.:	HY-158028
Molecular Formula:	$C_{25}H_{21}Br_2NO_7$
Molecular Weight:	607.24
Target:	Influenza Virus
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	PAN endonuclease-IN-2 (compound T-31) is a PA_N endonuclease inhibitor (IC_{50}: 0.15 μM) and antiviral agent with broad-spectrum anti- Influenza activity. PAN is the N-terminal PA subunit of the polymerase-RNA complex and the dependent endonuclease (CEN) active site. PAN initiates RNA replication by promoting cleavage of the RNA strand and allowing the polymerase to begin synthesizing new RNA molecules. PAN endonuclease-IN-2 targets both the influenza HA and RdRp complexes, thereby interfering with viral entry into host cells and viral replication[1].
IC_{50} & Target	IC50: 0.15 μM (PA_N endonuclease)[1]
In Vitro	PAN endonuclease-IN-2 (compound T-31) exerts an in vitro anti-influenza EC50 of 0.96 μM against influenza virus A (H1N1/A/WSN/33) in MDCK cells; against other PR/8 (H1N1), The EC50 of H3N2, H5N1, H9N2, and Flu B are 4.76 μM, 1.85 μM, 5.06 μM, 0.71 μM, and 2.36 μM respectively[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Ruan J, et al. Optimization and biological evaluation of l-DOPA derivatives as potent influenza PAN endonuclease inhibitors with multi-site binding characteristics. Bioorg Chem. 2024 Mar;144:107139.

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