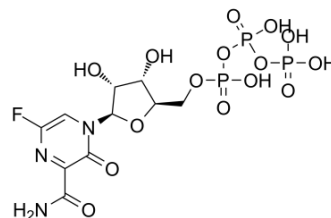


T-705RTP

Cat. No.:	HY-135803
CAS No.:	740790-94-7
Molecular Formula:	C ₁₀ H ₁₅ FN ₃ O ₁₅ P ₃
Molecular Weight:	529.16
Target:	DNA/RNA Synthesis; Influenza Virus; SARS-CoV
Pathway:	Cell Cycle/DNA Damage; Anti-infection
Storage:	Please store the product under the recommended conditions in the COA.



BIOLOGICAL ACTIVITY

Description	T-705RTP is a selective and GTP-competitive influenza virus RNA polymerase inhibitor with an IC ₅₀ of 0.14 μM and a K _i of 1.52 μM. T-705RTP is the active triphosphate metabolite of T-705 and has potent anti-influenza virus activity ^{[1][2]} .
IC₅₀ & Target	IC ₅₀ : 0.14 μM (Influenza virus RNA polymerase) ^[1] K _i : 1.52 μM (Influenza virus RNA polymerase) ^[1]
In Vitro	T-705RTP and T-705RMP are detected in MDCK cells treated with T-705. T-705RTP inhibits influenza virus RNA polymerase activity in a dose-dependent and a GTP-competitive manner ^[1] . T-705RTP inhibits the incorporation of ATP and GTP in a competitive manner with K _i values of 7.72 and 1.56 μM, respectively. T-705RTP inhibits the incorporation of CTP in a mixed-type manner with a K _i value of 11.3 μM, and also inhibits the incorporation of UTP in a noncompetitive manner ^[2] . The incorporation of a single molecule of T-705RTP (10-1000 μM) inhibits influenza virus RNA strand extension ^[2] .

REFERENCES

- [1]. Furuta Y, et al. Mechanism of action of T-705 against influenza virus. *Antimicrob Agents Chemother.* 2005 Mar;49(3):981-6.
- [2]. Sangawa H, et al. Mechanism of action of T-705 ribosyl triphosphate against influenza virus RNA polymerase. *Antimicrob Agents Chemother.* 2013 Nov;57(11):5202-8.

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

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