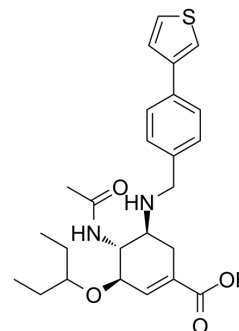


Influenza virus-IN-3

Cat. No.:	HY-146000
CAS No.:	2412451-16-0
Molecular Formula:	C ₂₅ H ₃₂ N ₂ O ₄ S
Molecular Weight:	456.6
Target:	Influenza Virus
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Influenza virus-IN-3 (compound 9) is a potent and selective influenza virus inhibitor with IC ₅₀ s of 0.88, 0.10, 5.5, 0.51 μM for H5N1, H5N2, H5N6, H5N8, respectively. Influenza virus-IN-3 shows antiviral and NA (neuraminidase enzyme)-inhibitory activity. Influenza virus-IN-3 shows low cytotoxicity with an CC ₅₀ of >200 μM ^[1] .
IC₅₀ & Target	IC ₅₀ : 0.88 μM (H5N1); 0.10 μM (H5N2); 5.5 μM (H5N6); 0.51 μM (H5N8) ^[1]
In Vitro	Influenza virus-IN-3 (compound 9a) shows NA (neuraminidase enzyme)-inhibitory activity with IC ₅₀ s of 118.17, 1442.6, 34543.33, 78.06, 10206, 0.00048, 0.01222 nM for H5N1, H5N2, H5N6, H5N8, H5N1eH274Y, N1 (H1N1pdm09) and N2 (H3N2), respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Ai W, et al. Discovery of novel "Dual-site" binding oseltamivir derivatives as potent influenza virus neuraminidase inhibitors. *Eur J Med Chem.* 2020 Apr 1;191:112147.

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

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