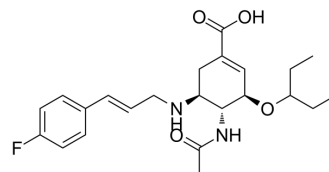


## Influenza virus-IN-4

Cat. No.:	HY-146001
CAS No.:	2133818-85-4
Molecular Formula:	C <sub>23</sub> H <sub>31</sub> FN <sub>2</sub> O <sub>4</sub>
Molecular Weight:	418.5
Target:	Influenza Virus
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Influenza virus-IN-4 (compound 11e) is a potent influenza virus neuraminidase inhibitor with IC <sub>50</sub> s of 3.4, 0.094, 0.79, 0.077 μM for H5N1, H5N2, H5N6, H5N8, respectively. Influenza virus-IN-4 shows NA (neuraminidase enzyme)-inhibitory activity. Influenza virus-IN-4 shows low cytotoxicity with an CC <sub>50</sub> of >200 μM. Influenza virus-IN-4 shows no obvious toxicity at the dose of 1500 mg/kg in mice <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	IC <sub>50</sub> : 3.4 μM (H5N1); 0.094 μM (H5N2); 0.79 μM (H5N6); 0.077 μM (H5N8) <sup>[1]</sup>
<b>In Vitro</b>	Influenza virus-IN-4 (compound 11e) shows NA (neuraminidase enzyme)-inhibitory activity with IC <sub>50</sub> s of 33.26, 16.81, 45.46, 33.02, 5270.33, 0.00043, 0.00347 nM for H5N1, H5N2, H5N6, H5N8, H5N1eH274Y, N1 (H1N1pdm09) and N2 (H3N2), respectively <sup>[1]</sup> . 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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