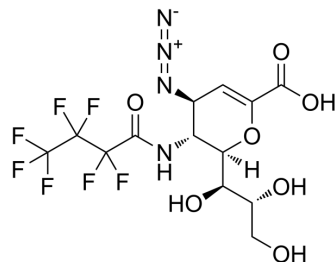


## Neuraminidase-IN-13

<b>Cat. No.:</b>	HY-149058
<b>CAS No.:</b>	2222067-23-2
<b>Molecular Formula:</b>	C <sub>13</sub> H <sub>13</sub> F <sub>7</sub> N <sub>4</sub> O <sub>7</sub>
<b>Molecular Weight:</b>	470.25
<b>Target:</b>	Influenza Virus
<b>Pathway:</b>	Anti-infection
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	<p>Neuraminidase-IN-13 (Compound 10) is a neuraminidase inhibitor with antiviral activity and low cytotoxicity. Neuraminidase-IN-13 significantly inhibits NDV infection of Vero cells by preventing the release of viral particles from infected cells<sup>[1]</sup>. Neuraminidase-IN-13 is a click chemistry reagent, it contains an Azide group and can undergo copper-catalyzed azide-alkyne cycloaddition reaction (CuAAC) with molecules containing Alkyne groups. Strain-promoted alkyne-azide cycloaddition (SPAAC) can also occur with molecules containing DBCO or BCN groups.</p>
<b>In Vitro</b>	<p>Neuraminidase-IN-13 inhibits plaque formation in NDV La Sota strain with an IC<sub>50</sub> value of 0.06 μM<sup>[1]</sup>.          Neuraminidase-IN-13 inhibits viral proliferation with an IC<sub>50</sub> of 0.04 μM<sup>[1]</sup>.          Neuraminidase-IN-13 has no cytotoxicity to cells, with the CC<sub>50</sub> value is greater than 2500 μM<sup>[1]</sup>.          Neuraminidase-IN-13 inhibits virus binding Vero cells with an IC<sub>50</sub> of 4 μM<sup>[1]</sup>.          Neuraminidase-IN-13 inhibits virus release with an IC<sub>50</sub> value of 0.09 μM in Vero cells<sup>[1]</sup>.          MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

### REFERENCES

[1]. Rota P, et al. Design, Synthesis, and Antiviral Evaluation of Sialic Acid Derivatives as Inhibitors of Newcastle Disease Virus Hemagglutinin-Neuraminidase: A Translational Study on Human Parainfluenza Viruses. *ACS Infect Dis.* 2023 Mar 10;9(3):617-630.

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

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