# Neuraminidase-IN-20

**Cat. No.:** HY-163522

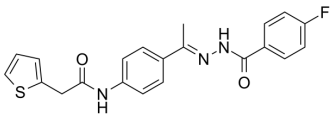
**Molecular Formula:** $C_{21}H_{18}FN_3O_2S$

**Molecular Weight:** 395.45

**Target:** Influenza Virus

**Pathway:** Anti-infection

**Storage:** Please store the product under the recommended conditions in the Certificate of Analysis.



## BIOLOGICAL ACTIVITY

**Description**

Neuraminidase-IN-20 (Compound 5i) is a potent inhibitor of mutant neuraminidase (NA) (H5N1-H274Y) ($IC_{50}$= 0.44 μM).Neuraminidase-IN-20 binds to the 430 cavity site of NA and disrupts the enzymatic activity of NA[1].

**In Vitro**

Neuraminidase-IN-20 (45-66 μM; 72 h) shows cytotoxicity in A549 cells[1].

Neuraminidase-IN-20 forms multiple hydrogen bonds with several key residues in NA (e.g: Arg118 and Arg371), which significantly increases the inhibitory effect on NA[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Cytotoxicity Assay[1]

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|---|---|
| Cell Line: | A549 cells |
| Concentration: | 45-66 μM |
| Incubation Time: | 72h |
| Result: | Had cytotoxic at higher concentrations ($CC_{50}$ = 55.29 μM). |

## REFERENCES

[1]. Fu SK, et al.Discovery andsynthesis of novel benzoylhydrazone neuraminidase inhibitors. Bioorg Med Chem Lett. 2024 Jun 1;105:129743.



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