



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



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Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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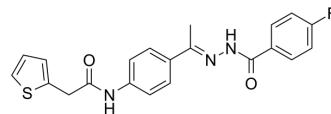
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## Neuraminidase-IN-20

Cat. No.:	HY-163522
Molecular Formula:	C <sub>21</sub> H <sub>18</sub> FN <sub>3</sub> O <sub>2</sub> S
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

<b>Description</b>	Neuraminidase-IN-20 (Compound 5i) is a potent inhibitor of mutant neuraminidase (NA) (H5N1-H274Y) (IC <sub>50</sub> = 0.44 μM). Neuraminidase-IN-20 binds to the 430 cavity site of NA and disrupts the enzymatic activity of NA <sup>[1]</sup> .								
<b>In Vitro</b>	<p>Neuraminidase-IN-20 (45-66 μM; 72 h) shows cytotoxicity in A549 cells<sup>[1]</sup>.</p> <p>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<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Cytotoxicity Assay<sup>[1]</sup></p> <table border="1"> <tr> <td>Cell Line:</td> <td>A549 cells</td> </tr> <tr> <td>Concentration:</td> <td>45-66 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>72h</td> </tr> <tr> <td>Result:</td> <td>Had cytotoxic at higher concentrations (CC<sub>50</sub> = 55.29 μM).</td> </tr> </table>	Cell Line:	A549 cells	Concentration:	45-66 μM	Incubation Time:	72h	Result:	Had cytotoxic at higher concentrations (CC <sub>50</sub> = 55.29 μM).
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Result:	Had cytotoxic at higher concentrations (CC <sub>50</sub> = 55.29 μM).								

### REFERENCES

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

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

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