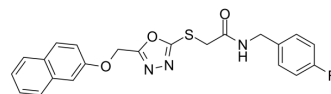


Neuraminidase-IN-18

Cat. No.:	HY-163393
CAS No.:	2935407-32-0
Molecular Formula:	C ₂₂ H ₁₈ FN ₃ O ₃ S
Molecular Weight:	423.46
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-18 (compound N5) is a novel polyheterocyclic neuraminidase (NA) inhibitor. Neuraminidase-IN-18 shows potency in inhibition of H5N1 NA with an IC ₅₀ of 0.14 μM and 0.27 μM against the wild-type H5N1 NA and H5N1-H274Y mutant NA, respectively. Neuraminidase-IN-18 inhibits influenza virus replication by binding to NAs in cell level ^[1] .
In Vitro	Neuraminidase-IN-18 (compound N5) shows the EC ₅₀ value of 3.70 μM in vitro antiviral activities against H5N1 by CCK-8 method ^[1] . The aromatic fused rings and 1,3,4-oxadiazole rings in Neuraminidase-IN-18 are well embedded in the active sites. Neuraminidase-IN-18 can form strong hydrogen-bonding interactions with the three positively charged key arginine residues (Arg118, Arg292, and Arg371) at the active site ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Lin Lin Shang, et al. Discovery of novel polyheterocyclic neuraminidase inhibitors with 1,3,4-oxadiazole thioetheramide as core backbone. European Journal of Medicinal Chemistry, Available online 12 March 2024, 116305.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA