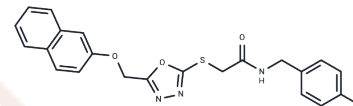


Neuraminidase-IN-18

Chemical Properties

CAS No. :	2935407-32-0
Formula:	C ₂₂ H ₁₈ FN ₃ O ₃ S
Molecular Weight:	423.46
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Neuraminidase-IN-18 (compound N5), a novel polyheterocyclic neuraminidase (NA) inhibitor, demonstrates significant inhibitory activity against H5N1 NA, with an IC ₅₀ of 0.14 μM against the wild-type H5N1 NA and 0.27 μM against the H5N1-H274Y mutant NA. This compound effectively binds to NAs, inhibiting influenza virus replication at the cellular level [1].
Targets(IC ₅₀)	Influenza Virus
In vitro	Neuraminidase-IN-18 (compound N5) demonstrates in vitro antiviral activity against H5N1, with an EC ₅₀ value of 3.70 μM, as shown by the CCK-8 method [1]. The aromatic fused ring and 1,3,4-oxadiazole ring in Neuraminidase-IN-18 are well-integrated into the active site, facilitating strong hydrogen bonding interactions with three positively charged key arginine residues (Arg118, Arg292, and Arg371) [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3615 mL	11.8075 mL	23.615 mL
5 mM	0.4723 mL	2.3615 mL	4.723 mL
10 mM	0.2361 mL	1.1807 mL	2.3615 mL
50 mM	0.0472 mL	0.2361 mL	0.4723 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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