IAV-IN-2

MedChemExpress

Cat. No.:	HY-158097	
Molecular Formula:	C ₂₂ H ₂₅ N ₃ O ₅	
Molecular Weight:	411.45	O II
Target:	Influenza Virus	
Pathway:	Anti-infection	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

Inhibitors

Product Data Sheet

BIOLOGICAL ACTIVITY				
Description	IAV-IN-2 (Compound MC-22) inhibits for Influenza A Virus (IAV) through blocking the entry of IAV into host cell via clathrin- mediated endocytosis (CME) ^[1] .			
In Vitro	(H3N2) with 97%–100% IAV-IN-2 (1-1000 μM) exh IAV-IN-2 (10 μM) causes endosomal trafficking, o MCE has not independe	 IAV-IN-2 (0.01-10 μM) inhibits IAV A/XØ31 (H3N2) (with IC₅₀ of 4.08 μM), A/WSN/33 (H1N1), A/Udorn/72 (H3N2) and A/NYMC (H3N2) with 97%–100% inhibitory potency^[1]. IAV-IN-2 (1-1000 μM) exhibits cytotoxicity in cell A549 with CC₅₀ of 33.9 μM^[1]. IAV-IN-2 (10 μM) causes endosomal maturation defect, which disrupts the step-wise priming of the viral core during its endosomal trafficking, disabling the virus to uncoat its capsid and release its genome into the cell^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Cytotoxicity Assay^[1] 		
	Cell Line:	A549		
	Concentration:	1-1000 μΜ		
	Incubation Time:	24 h		
	Result:	Exhibited cytotoxicity in A549.		

REFERENCES

[1]. Thottasseri AA, et al., Morpholinodiazenyl chalcone blocks influenza A virus capsid uncoating by perturbing the clathrin-mediated vesicular trafficking pathway. Arch Pharm (Weinheim). 2024 Mar 15:e2300670.

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

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