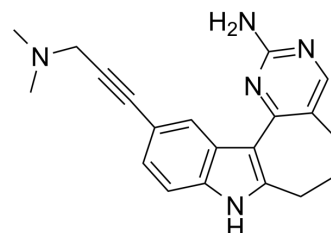


## PIKfyve-IN-1

Cat. No.:	HY-151473		
CAS No.:	2857982-26-2		
Molecular Formula:	C <sub>20</sub> H <sub>21</sub> N <sub>5</sub>		
Molecular Weight:	331.41		
Target:	PIKfyve		
Pathway:	PI3K/Akt/mTOR		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



## BIOLOGICAL ACTIVITY

Description	PIKfyve-IN-1 is a highly potent and cell-active chemical probe that inhibits phosphatidylinositol-3phosphate 5-kinase (PIKfyve) with IC <sub>50</sub> value of 6.9 nM. PIKfyve-IN-1 can be used for the research of PIKfyve in virology <sup>[1]</sup> .		
IC <sub>50</sub> & Target	IC50: 6.9 nM (PIKfyve) <sup>[1]</sup>		
In Vitro	PIKfyve-IN-1 inhibits PIKfyve in PIKfyve enzymatic assay and PIKfyve NanoBRET assay with IC <sub>50</sub> values of 6.9 nM and 4.01 nM, respectively <sup>[1]</sup> .		
	PIKfyve-IN-1 (0-10 μM) disrupts multiple phases of the lifecycle of coronaviruses: viral replication and viral entry <sup>[1]</sup> .		
	PIKfyve-IN-1 inhibits MHV replication and SARS-CoV-2 replication with IC <sub>50</sub> values of 23.5 nM and 19.5 nM, respectively <sup>[1]</sup> .		
	PIKfyve-IN-1 (5 μM) impacts lysosomal homeostasis <sup>[1]</sup> .		
	MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
	Immunofluorescence <sup>[1]</sup>		
Cell Line:		Calu-3 cells	
Concentration:		1 μM	
Incubation Time:		1 h	
Result:		Inhibited the uptake of lentivirus pseudotyped with the SARS-CoV-2 spike glycoprotein.	

## REFERENCES

[1]. David H Drewry, et al. Identification and Utilization of a Chemical Probe to Interrogate the Roles of PIKfyve in the Lifecycle of β-Coronaviruses. J Med Chem

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

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