## SARS-CoV-2-IN-36

MedChemExpress

R

Cat. No.:	HY-151988	
Molecular Formula:	$C_{17}H_{21}N_5O_3$	
Molecular Weight:	343.38	
Target:	SARS-CoV	$H_2N$
Pathway:	Anti-infection	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

BIOLOGICAL ACTIV								
Description	SARS-CoV-2-IN-36 is a potent SARS-CoV-2 Mpro (SARS-CoV) inhibitor with an IC <sub>50</sub> of 2.37 μM and a K <sub>d</sub> of 1.19 μM in enzymatic assays. SARS-CoV-2-IN-36 shows antiviral activity against UC-1074, RG2674, and NVDBB-2220 SARS-CoV-2 variants in Vero cells <sup>[1]</sup> .							
In Vitro	SARS-CoV-2-IN-36 (compound 58) inhibit the replication of the Wuhan (UC-1074),South African (RG2674), and UK (NVDBB- 2220) SARS-CoV-2 variants, with IC50 values of 5.0 µM, 39.9 µM, and 5.2 µM, respectively. SARS-CoV-2-IN-36 alters cell morphology only at concentrations above ≥100 µM and does not inhibit Vero cell growth up to a concentration >100 µM <sup>[1]</sup> . SARS-CoV-2-IN-36 (compound 58) lacks antiviral activity against two herpesviruses (varicella-zoster virus and human cytomegalovirus) in human embryonic lung fibroblasts. SARS-CoV-2-IN-36 shows a very low cytotoxicity also against embryonic lung fibroblasts <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.							
In Vivo	PK analysis of plasma concentrations, with $\pm$ SD, after intranasal (IN) and oral (PO) administration in male C57BL6 mice <sup>[1]</sup> .							
	Route	Dose (mg/kg)	Concentration (mg/mL)	Number of animals	C <sub>max</sub> (ng/mL)	T <sub>max</sub> (h)	AUC <sub>t/dose</sub> (h*kg*ng/mL/mg)	
	IN	0.5	1.0	3	177.97±26.15	0.25±0.00	188.05±32.52	
	IN	1.25	2.5	3	325.95±42.45	0.25±0.00	150.62±23.80	
	РО	10	10	3	22.72±4.42	0.75±0.43	3.07±0.92	
	РО	25	2.5	3	33.67±3.42	0.5±0.43	2.00±0.51	
	MCE has not independently confirmed the accuracy of these methods. They are for reference only.							

## REFERENCES

[1]. Simone Di Micco, et al. Rational design of the zonulin inhibitor AT1001 derivatives as potential anti SARS-CoV-2. Eur J Med Chem. 2022 Dec 15;244:114857.

## 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