Mpro inhibitor N3

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®

Cat. No.:	HY-136149	
CAS No.:	884650-98-0	
Molecular Formula:	C ₃₅ H ₄₈ N ₆ O ₈	°∕NH
Molecular Weight:	680.79	
Target:	SARS-CoV; Virus Protease	
Pathway:	Anti-infection	
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)	

SOLVENT & SOLUBILITY

	Mass Solvent Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.4689 mL	7.3444 mL	14.6888 mL
	5 mM	0.2938 mL	1.4689 mL	2.9378 mL
	10 mM	0.1469 mL	0.7344 mL	1.4689 mL

BIOLOGICAL ACTIV		
Description	Mpro inhibitor N3 is a po activities against HCoV-2	tent SARS-CoV-2 MPro inhibitor with an EC ₅₀ value of 16.77 μM. Mpro inhibitor N3 shows antiviral 29E, FIPV, IBV and MHV-A59 ^{[1][2][3]} .
In Vitro	Mpro inhibitor N3 (0-100 Mpro inhibitor N3 (0-50 µ MHV-A59, respectively ^[2] MCE has not independer	μM) shows antiviral activities with an EC ₅₀ value of 16.77 μM for SARS-CoV-2 ^[1] . M; 14 h) inhibits the viral growth with the IC ₅₀ values of 4, 8.8, 2.7 μM for HCoV-229E, FIPV, IBV and .tly confirmed the accuracy of these methods. They are for reference only.
In Vivo	Mpro inhibitor N3 (0-0.64 MCE has not independen Animal Model: Dosage: Administration:	 μM; 3, 6 h) shows antiviral activity against IBV in chicken , embryos^[3]. htly confirmed the accuracy of these methods. They are for reference only. Chicken embryos^[3] 0-0.64 μM 3, 6 h with 100-EID50 titer of IBV M41 virus



	Result:	Showed that N3 is able to penetrate cells to inhibit the replication of IBV viruses, probably at the beginning of infection, with the PD ₅₀ of 0.13 μmol for the 3-h group and 0.17 μmol for the 6-h group.
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REFERENCES

[1]. Jin Z, et al. Structure of Mpro from SARS-CoV-2 and discovery of its inhibitors. Nature. 2020 Jun;582(7811):289-293.

[2]. Yang H, et al. Design of wide-spectrum inhibitors targeting coronavirus main proteases. PLoS Biol. 2005 Oct;3(10):e324.

[3]. Xue X, et al. Structures of two coronavirus main proteases: implications for substrate binding and antiviral drug design. J Virol. 2008 Mar;82(5):2515-27.

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

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